

Chemicals for Molecular Imaging

2017

Manufacturing and development of chemicals for molecular imaging

- Worldwide leading supplier of PET precursors and FDG reagents kits
- Production and development of PET and SPECT precursors and reference standards
- Manufacturing of reagents kits and cassettes, particularly kits for FDG, F-DOPA, FLT, F-Choline, NaF, F- MISO, FES and FET production
- US (FDA) and European Drug Master File (DMF) for Mannose Triflate (FDG precursor)
- European Drug Master File (DMF) for FDG reagents kits using the GE TRACERlab MX, Neptis and Siemens Explora One synthesis modules
- Further DMFs and technical documents for PET and SPECT precursors
- Custom synthesis and manufacturing according to GMP for APIs
- Design, custom synthesis and production of peptides (GMP quality on request)
- Leading manufacturer of reagents kits and cassettes for ^{68}Ga -Labelling
- Performance of stability studies
- Hot Lab for R&D of new pharmaceutical kits and cassettes and co-operation with pharmaceutical companies
- Development of radiotracers as well as labelling and purification strategies
- Distributor of ^{18}O -Water FDG grade and GMP grade
- ROVER - ABX PET evaluation software
- 17 years experience
- 190 professionals (among them 20 with PhD)
- New manufacturing, filling and assembling sites
- Clean room facilities for the production and filling under pharmaceutical conditions
- Audited and accepted as GMP API manufacturer by:
 - German pharmaceutical authorities
 - FDA (US Food and Drug Administration)

History of ABX

- 1997:** - foundation of ABX GmbH
- vision: production of PET precursor – Diprenorphine
- 1998:** - start with own laboratory (30 sqm)
- start with CRO business
- 2001:** - start of kit production in new facilities in Robert-Bosch-Strasse
- 2002:** - split off of CRO business into independant ABX-CRO GmbH
- purchase of facilities in Heinrich-Glaeser-Strasse 10 – 14 and start of reconstruction
- 2003:** - chemical labs and clean rooms in Heinrich-Glaeser-Strasse 12 operational
- 2004:** - successful audit by “Regierungspraesidium Dresden” for GMP production
- 2005:** - successful audit by FDA for GMP compliance for APIs
- successful audit by “Regierungspraesidium Dresden” for license of wholesalers
- 2006:** - change in ownership – new owner: CIL / Cambridge Isotope Laboratories, Inc. (USA), subsidiary of Otsuka Pharmaceuticals (Japan)
- 2007:** - hot (radiosynthesis) laboratory for R&D in Heinrich-Glaeser-Strasse 10 operational
- re-audit by “Regierungspraesidium Dresden” for GMP-production
- 2008:** - re-audit by FDA for GMP compliance for APIs
- 2011:** - re-audit by “Landesdirektion Dresden” for GMP production
- 2012:** - re-audit by FDA for GMP compliance for APIs
- 2013:** - new production building for GMP filling and assembling in Heinrich-Glaeser-Strasse 14 operational
- 2013:** - re-audit by “Landesdirektion Dresden” for the new ABX GMP facility
- 2015:** - new cyclotron facility including additional radiochemistry lab operational

FDG

Mannose Triflate (TATM)

- Globally, ABX is the biggest producer of Mannose Triflate
- continuous production, with a constant stock of minimum 5 kgs
- documentation in **Drug Master Files** (US-DMF and ASMF) in accordance with regulations of the International Conference of Harmonization (ICH) – submitted to the national authorities of:

USA (FDA)	Germany	Austria	Belgium
Czech Republic	Denmark	Finland	France
Greece	Hungary	Ireland	Israel
Italy	Luxembourg	Portugal	Singapore
Slovakia	Spain	Sweden	Switzerland
The Netherlands	United Kingdom		

- validated production process
- detailed stability testing in accordance with ICH regulations
- fully automated filling under argon atmosphere with a controlled pharmaceutical background

FDG Reagents Kits

Our kits contain all chemicals needed for the FDG synthesis in the modules of:

- GE TRACERlab MXFDG – recommended by GE
(ASMF available in Denmark, France, Spain, Sweden)
- GE TRACERlab FFX-N or FFXFDG – recommended by GE
- IBA Synthera
- SIEMENS Explora FDG4
- SIEMENS Explora One – recommended by SIEMENS
- ORA NEPTIS perform and plug – recommended by ORA
- ORA NEPTIS mosaic-LC and mosaic-RS – recommended by ORA
- SCINTOMICS – recommended by SCINTOMICS
- Eckert & Ziegler (former Bioscan) FDG-Plus
- SYNTHRA FDGtwo and Rnplus – recommended by SYNTHRA

All our kits can be delivered as **chemical grade** as well as **pharmaceutical grade** quality (with specified analytical limits and tested for microbiological contamination).

Cryptand 222

We also manufacture Cryptand 222 for the production of FDG

- high quality Cryptand
- special analytical procedures meet the demands of [^{18}F]FDG synthesis

Cassettes

We produce cassettes and tubing systems for several of the existing FDG modules

NEW: We have developed a high-yield cassette, ABX product no. K-1401TM, for the ORA NEPTIS and the SIEMENS Explora One module, that can be used alternating for all GE TRACERlab MX and COINCIDENCE boxes.

Cartridges

- **GE TRACERlab MX_{FDG}**
 - pre-conditioned QMA cartridge
- **GE TRACERlab FX_{FDG} or FX_{F-N} and SYNTHRA FDGtwo and Rnplus**
 - GE ^{18}F Separation cartridge (Chromafix PS-HCO₃)
 - GE FDG Purification cartridge (Chromabond Set IV and V)

Evacuated Vials in different sizes

We manufacture evacuated vials for the use in the GE TRACERlab MX and FX module as well as evacuated and/or sterile vials for any other needs.

Accessories/Ancillaries

In addition we offer further cartridges and vials, syringes, needles, filters and so on for as example the GE TRACERlab MX, the IBA Synthera, the SIEMENS Explora and other FDG modules

STOCK in the US

ABX keeps a stock of Mannose Triflate, Cryptand 222 and Kits for the GE TRACERlab MX and FX module in South Bend, Indiana. We can deliver to every place in the US within 24 hours (overnight shipment) in case you inform us in the morning. Otherwise shipments may take up to 48 hours.

Please note that research chemicals and other products can only be shipped from our stock in Germany.

US phone no.: (574) 271-3521

PET and SPECT Precursors

- **PET precursors for**

FDG	F-DOPA	FLT	FET
F-Choline	F-MISO	FAZA	FES
FHBG	Fallypride	MPPF	Altanserin
FDHT	Flumazenil	Diprenorphine	PIB
Methionine	Raclopride	DASB	PK 11195
beta-CIT	PE2I	Altropane	FLB 457
PBR28	Verapamil	DTBZ	MHED
MDL 100907	ABP688	ATSM	etc.

- **Reference standards**

- **Peptides**

- DKFZ-PSMA-11 (GMP and research grade)
- DKFZ-PSMA-617 (GMP and research grade)
- DOTA-TATE (GMP)
- DOTA-NOC (GMP and research grade) **etc.**

- **SPECT precursors for**

- MIBG (GMP and research grade)
- FIAU **etc.**

- **Chelators for radionuclides**

- CuMibi (GMP and research grade)
- Mebrofenin
- Hynic
- EC/ECD **etc.**

Certificate of Analysis as well as NMR spectrum and/or HPLC included.

Reagents Kits

FDG reagents kits:

- **GE TRACERlab MXFDG** – recommended by GE
(ASMF available in Denmark, France, Spain, Sweden)
- **GE TRACERlab FFX-N or FFXFDG** – recommended by GE
- **IBA Synthera**
- **SIEMENS Explora FDG4**
- **SIEMENS Explora One** – recommended by SIEMENS
- **ORA NEPTIS perform and plug** – recommended by ORA
- **ORA NEPTIS mosaic-LC and mosaic-RS** – recommended by ORA
- **SCINTOMICS GRP** – recommended by SCINTOMICS
- **Eckert & Ziegler** (former Bioscan) **FDG-Plus**
- **SYNTHRA FDGtwo and Rnplus** – recommended by SYNTHRA
- Others on request

Complete solutions for additional ^{18}F and ^{68}Ga tracer productions:

- F-DOPA, FLT, F-Choline, NaF, F-MISO, FES, FET, FHBG, SFB, F-acetate, and FDGal reagents kits designed for the **GE TRACERlab MX**, the **ORA NEPTIS perform, plug and mosaic-RS** as well as the **SIEMENS Explora One** synthesis modules including cassette, accessories & cartridges, manual and software (sequences)
- F-DOPA, FLT, FET, F-MISO, F-Choline, FES and ^{11}C -chemistry reagents kits designed for the **GE TRACERlab FX** box
- FLT, NaF, F-Choline and F-DOPA reagents kits designed for the **IBA Synthera** box including cassette (IFP) and ancillaries
- FLT, NaF, F-Choline, FET and F-MISO reagents kits as well as general ^{68}Ga labelling, ^{90}Y and ^{177}Lu reagents kits designed for the **SCINTOMICS GRP** module including cassettes

- FLT and F-MISO reagents kits designed for the **Eckert & Ziegler** (former Bioscan) **FDG-Plus box**
- ^{68}Ga reagents kits (two cationic versions) designed for the **Eckert & Ziegler Modular-Lab systems** – supplied by **Eckert & Ziegler**
- ^{68}Ga reagents kits and cassettes designed for the **ITG iQS ^{68}Ga Fluidic Labeling Module** – supplied by **ITG**
- F-DOPA cassettes filled with all reagents for the **GE FASTlab Synthesizer** – supplied by **GE**

Certificates of Analysis always included.

We are always interested in the development of new reagents kits and cassettes systems for YOUR 18F and 68Ga tracers – development according to you requests. We are well experienced in that field and do have an own radiochemistry lab with several hot cells; nearly all common synthesis modules are installed. Also, we could offer the development of an appropriate quality control procedure. If you should be interested in that type of service or would like to learn much more about the possibilities we could offer, please contact us at info@abx.de.

Custom Synthesis

ABX offers the following services:

- **Custom synthesis** in quantities from milligrams to kilograms, development, and production of:
 - PET precursors and reference standards**
 - SPECT precursors**
 - Neurochemicals**
 - Metabolites**
- Synthesis of **Peptides** from 5 to 40 amino acids (quantities up to 10 grams) special modifications including: D-amino acids, conjugation with complexation ligands, Biotin, others on request
- **GMP production** in full compliance with pharma industry standards of quality and confidentiality and in compliance with ICH Q7 (GMP for APIs), chapter 19 (APIs for use in clinical trials)
- Establishing **DMF** (Drug Master File) for PET and SPECT precursors
- Performance of **stability studies**
- **Custom research, consultancy service** and **expertises** for the production of new or already existing/known PET precursors for the execution of clinical and pharmaceutical studies/trials.

Please contact us at info@abx.de

Hot Lab

In 2007 ABX started with an own R&D hot (radiosynthesis) laboratory with affiliated quality control department and now offers:

- Design of **new pharmaceutical kits and cassettes** for various radiotracers
- Development of **labelling strategies** for a better performance of new synthesis modules in the production of radiotracers with focus on reliability, yield, and purity
- **Yield enhancement** of radiotracers
- Development of **purification strategies** using cartridges instead of HPLC purification
- Permanent refinement of all kit components and chemicals with regard to quality and performance
- **Technical support** for customers
- Continuous improvement of existing ABX radiotracers

Installations and equipment are compliant with GMP regulations and ready for co-operations with **pharmaceutical companies** for:

- **Testing of new radiotracers**
- Definition and **preparation of analytical standards** for by-products occurring during radiosynthesis in cooperation with the department of medicinal chemistry
- Formulation and stability studies of radiotracers

Please contact us at info@abx.de

PET Software ROVER

ROVER is an evaluation program designed for the fast interactive visualization, analysis and easy data and image export of tomographic image data. It combines several functionalities related to the efficient evaluation of these data with the emphasis on (human and small animal) PET. Nevertheless many features are also useful with other imaging modalities (e.g. CT, MRI).

List of ROVER key features:

- **General tomographic image data visualization**

ROVER combines versatile image viewing and image export capabilities. The data can be visualized in the orthogonal view (transaxial, coronal, sagittal), the multiple planes view or a maximum intensity projection. ROVER is able to load and process an arbitrary number of data sets (limited only by available RAM) and allows rapid inter-study navigation. ROVER currently supports the following image file formats:

- DICOM
- ECAT7 (Siemens/CTI)
- microPET Concorde

- **3D ROI analysis and volume determination**

ROVER targets especially the problem of quantitative 3D ROI (Region Of Interest) evaluation of PET investigations (dynamic as well as whole body) incorporating ROI rendering in a separate colour table. ROVER also includes tools for rapid and accurate 3D ROI volume determination including automatic background subtraction that allows the identification of changes in ROI size and tracer accumulation (e.g. SUVs) during oncological follow up studies. ROVER features ROI data export as DICOM RT structure sets for PET supported target definition in radiation treatment planning.

- **Synchronous data evaluation**

ROVER can visualize several image volumes in a parallel viewing mode. This is especially useful for the parallel viewing of follow up studies or individual time frames of a dynamic image file. For this purpose the images are automatically co-registered to allow a meaningful comparison. Data analysis of these files can be performed and reported simultaneously.

- **Data and Image export**

All rendered images can be easily exported in various image formats. The ROIs detected by ROVER can be exported to data files (XML and flat text) for subsequent cumulative data evaluations. Care has been taken to allow easy access of these files with many standard OPEN SOURCE tools (e.g. gnuplot, octave, R) as well as with commercial software (e.g. MATLAB, IDL, Excel).

Please contact us at info@abx.de

Orders and Inquiries

ABX accepts orders and inquiries by phone, fax, e-mail and mail. Please do not hesitate to ask for an individual quotation.

Please contact

ABX advanced biochemical compounds GmbH
Heinrich-Glaeser-Strasse 10 – 14
01454 Radeberg
Germany

Phone: + 49 / 35 28 / 40 41 60
Fax: + 49 / 35 28 / 40 41 65
E-mail: sales@abx.de

If the product is in stock we will deliver worldwide within 5 days maximum.

Common PET chemicals such as Mannose Triflate, precursors for FLT, F-DOPA, F-MISO, Choline, PIB, Methionine and Raclopride as well as MIBG, CuMibi, DKFZ-PSMA-11, DKFZ-PSMA-617, DOTA-NOC, DOTA-TATE, LiAlH₄, TBA-HCO₃, and Cryptand are always in stock.

So are FDG reagents kits and cassettes for the GE TRACERlab MX, the IBA SYNTHERA, the several ORA NEPTIS synthesis modules, SIEMENS Explora One, and the SIEMENS Explora FDG4 module as well as FDG reagents kits including the Chromafix and Chromabond cartridges for the GE TRACERlab FX and SYNTHRA FDG modules.

Terms of Payment

Our Terms of Payment are by cheque to our name or by remittance to our account within 14 days after receipt of our products.

We also accept the following credit cards:

1. MasterCard/Eurocard
2. VISA
3. American Express

Catalogue Entry Information

Chemical Abstracts Registry numbers (CAS-RN)

The numbers that appear in square parentheses in the catalogue entries are the Chemical Abstracts Service (CAS) numbers. Each CAS-RN is a unique identification code assigned to a chemical substance by the American Chemical Society. In some cases, the CAS-RN are not yet assigned. The CAS-RN are listed as accurately as possible but may not reflect the salt or level of hydration of the product supplied.

Stereochemistry

Where specific stereochemistry is indicated in the structural formula, the product is supplied in the conformation shown. If stereochemical information is missing, products are supplied as mixtures of stereoisomers and/or racemate. In some cases, this is also indicated by the notation "D,L" and/or "racemic" or "rac" in the name.

Molecular weights

The molecular weight displayed in the catalogue represents the product as shown by the chemical structure including any salt forms with exception of peptides (m.w. of net peptides is provided). During manufacture water may be incorporated into the product (hydration). The degree to which this occurs can vary from batch to batch affects the molecular weight.

Customized filling

Each research chemical is filled according to customers needs. Minimum amount is 1 mg (except for peptides). Prior to sealing, all vials are flushed with argon gas for precautionary reasons.

Typically, two vial types are used:

"crimp cap vial" – amber glass vial (DIN 2R) with teflon faced chlorobutyl stoppers and centre tear-off crimp caps,

or

"screw cap vial" – amber glass threaded vial (3 ml), GL 14 with wine-red chlorobutyl rubber sealing cone, GL 14 and white PP screw caps.

In addition, larger quantities can be provided in amber glass threaded vials (25 ml), GL 22 with wine-red chlorobutyl rubber sealing cones and white PP screw caps.

We also offer filling into clear glass headspace vials (10 ml) with teflon faced rubber stoppers and tear-off crimp cap closure for use in GE TRACERlab MX synthesizers.

For peptides, quantities smaller than 1 mg are filled by aliquotation of a stock solution and subsequent lyophilization in clear glass vials with inner cone and crimp cap closure.

Please indicate amount and container/closure type when ordering a product. Other types are available on request.

Weighing accuracies

The quantity of compound supplied in our vials is weighed to the accuracy required for direct solution preparation. The weighing error is $\leq 5\%$ depending of the amount filled. (e.g. 5 % for 10 mg, 1 % for 1000 mg) Please refer to the vial label for detailed information.

Product Appearance

Empty vials

The appearance of product (colour, physical condition) is listed in the catalogue. Some products, especially those sold in small quantities or with low melting point, are transparent. This can make the product appear as a clear, thin film on the bottom and walls of the vial and may not be readily visible without careful scrutiny.

Typically the following products appear to be transparent: FDM – 1120, Fallypride and derivatives – 1550 to 1580, Norverapamil – 5600, TRODAT – 7400.

Physical condition

Some products, especially FDM (product number 1120), appear as (sticky) oil. In this case, filling may have been performed by dissolving the material in an appropriate solvent, aliquotation and evaporation of the solvent. After this procedure, sometimes the material is solid, sometimes appears as semisolid. The QC release procedure always takes place after the so called “liquid filling”.

Safety

Safety information

Every possible precaution should be taken when handling, using, storing or disposing of any chemical supplied by ABX. As far as possible, we provide advice and assistance to customers concerning the safe handling of our products. For research chemicals, the potential hazards are often not known and an absence of warning does not mean that no hazard exists. It is the users' responsibility to ensure that relevant safety precautions are taken at all times.

Glass vial opening instructions

The majority of our products are supplied in glass vials with a screw top lid. During transit, material may accumulate in the vial top. This can be dislodged by gently tapping the vial before opening. If product is stored at lower temperature, please allow to warm up before opening to avoid moisture to accumulate inside the container.

Product use

All our products are intended for laboratory use only. They are not intended for human use or consumption unless further processed and must not be used for cosmetic, agricultural, or domestic purpose. They should only be used by trained scientists working under controlled conditions who are familiar with the potential hazards.

Material Safety Datasheets (MSDS) and Certificates of Analysis (CoA)

Copies of the Product Material Safety Datasheets (MSDS) and Certificates of Analysis (CoA) are included with each individual product when shipped.

Purity

Bioactive chemical and peptide purity

Unless otherwise stated, ABX chemicals and peptides are of high purity, typically > 95 %. The purity quoted in the catalogue entry for each product is the minimum purity of the active ingredient that any given batch will have. This information is intended as a general guideline only. Please consult the certificate of analysis (CoA) for data specific to each individual batch.

Product sterility

Unless otherwise stated, ABX products are not filled under sterile conditions, and should not be treated as such.

Quality control

Chemical purity is assessed using an array of techniques including HPLC, chiral HPLC, NMR, microanalysis, melting point, optical rotation, TLC and mass spectrometry. Please see the individual product Certificate of Analysis for details.

Solubility information

Solubility information for any product can be found on package leaflet of the product shipped.

Stability and Storage

Bioactive chemical stability and storage

Information concerning research product stability has rarely been reported and in most cases we can offer a general guidance only. Our standard storage recommendations are either 5 ± 3 °C (refrigerator) or -20 ± 5 °C (deep freezer). In all cases refer to the CoA or vial label as conditions vary for different products.

Detailed stability data are available only for products manufactured according to GMP requirements for APIs (ICH Q7). Please inquire.

Peptides are provided in lyophilized form and should be stored dessicated at -20 °C. Long-term storage of peptides in solution is not recommended.

Short periods of high temperature

Short periods at higher temperatures than recommended (periods < 1 week), such as can occur during shipping, will not significantly affect product life or quality.

Retest Policy

Based on our scientific and expert knowledge as well as experience with our products as chemical substances and retest data we propose a recommended retest date of 3 years after date of manufacturing for research chemicals. Exceptions are possible for products with limited chemical stability. ABX is not obliged to perform a retest, once this period has expired, except the respective batch is not sold completely yet. No stability tests are performed with research chemicals. Please inquire if you need a retest for a specific research product.

This policy does not apply for products manufactured according to GMP for APIs for Use in Clinical Trials (ICH Q7, Cp. 19) or GMP for APIs, please inquire.

Content

List of all catalogue entries.

Product Number	Name
100	Mannose Triflate, ultra pure
101	Mannose Triflate, ultra pure
102	Mannose Triflate, ultra pure
105	Mannose Triflate PLUS, ultra pure
107	Mannose Triflate PLUS, ultra pure
1100	FDG
1108	6-Deoxy-6-fluoro-D-glucopyranose
1109	6-FDG precursor
1110	CIDG
1117	Glucose Triflate
1118	MBETG
1119	MBBTG
1120	FDM
1130	ACY-FDG
1131	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose
1138	Me-4-FDG precursor
1140	Talose Triflate
1150	FDGal
1180	DMTr-lyxothymidine
1190	DMTr-Nosyl-lyxothymidine
1200	Dimethoxybenzyl-FLT precursor
1210	Anhydrothymidine-FLT precursor
1219	FLT Ultra Pure
1220	3'-Fluoro-thymidine (FLT)
1222	3'-Iodo-thymidine
1230	5'-O-Benzoyl-2,3'-anhydrothymidine
1231	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)
1240	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine
1241	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)
1250	2,2'-Anhydrothymidine
1260	2'-Fluoro-thymidine
1261	3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine
1280	DEMM
1290	Thymidine
1300	6-Trimethylstannyl-L-DOPA
1302	6-Trimethylstannyl-D,L-DOPA
1303	6-Trimethylstannyl-D-DOPA
1310	6-Fluoro-L-DOPA hydrochloride
1311	6-Fluoro-D,L-DOPA hydrochloride
1312	F-L-DOPA pinacol boronate precursor
1320	DiBoc-Iodo-L-DOPA
1328	3,4-Di-O-Pivaloyl-L-DOPA
1329	4-O-Pivaloyl-L-DOPA Hydrochloride
1330	4-O-Pivaloyl-L-DOPA
1332	6-Hydroxy-D,L-DOPA
1335	Nucleophilic F-L-DOPA precursor
1336	n.c.a. Nucleophilic F-L-DOPA precursor
1337	6-Nitro-L-DOPA hydrogensulfate
1338	6-Nitro-Formyl-DOPA HCl
1339	6-Fluoro-Formyl-DOPA HCl
1340	TriBoc-L-DOPA methyl ester

1341	TriBoc-D,L-DOPA ethyl ester
1342	TriBoc-L-DOPA ethyl ester
1350	TriBoc-Iodo-L-DOPA
1363	OMFD precursor ABX004
1369	OMFD
1370	N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannyl-phenethylamine
1371	N-Trifluoroacetyl-3,4-di-tert-butoxycarbonyloxy-6-trimethylstannyl-phenethylamine
1380	6-Fluorodopamine
1400	NITTP
1401	NITTP (GMP)
1402	NITTP (GMP)
1410	Fluoromisonidazole
1420	Desmethylnisonidazole
1430	FETNIM precursor
1440	FETNIM
1450	1-(2,3-Diacetyl-5-tosyl-(α -D-arabinofuranosyl)-2-nitroimidazole
1451	1-(5-Deoxy-5-fluoro- α -D-arabinofuranosyl)-2-nitroimidazole
1452	N-(2-Tosyloxyethyl)phthalimide
1453	2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate
1454	N-(2-Fluoroethyl)-2-(2-nitroimidazol-1-yl)acetamide
1455	ATSM
1456	PTSM
1457	CuATSM
1459	NiATSM
1460	(R)-SCH-24518 hydrochloride
1462	(S)-SCH-24518 hydrochloride
1464	SCH-23390 hydrochloride
1466	SCH-23388 hydrochloride
1477	(R)-(-)-Norapomorphine hydrobromide
1480	(+)-Desmethyl-NNC112
1490	(+)-NNC112
1500	(S)-O-Desmethylnaloxone hydrobromide
1501	(R)-O-Desmethylnaloxone hydrobromide
1502	(R,S)-O-Desmethylnaloxone hydrobromide
1510	(S)-O-Desmethylnaloxone
1520	Naloxone
1521	Naloxone precursor
1522	Naloxone
1530	FLB 604
1540	FLB 457
1550	Tosyl-Naloxone
1560	Naloxone
1570	Tosyl-Desmethylnaloxone
1580	Desmethylnaloxone
1590	N-Mesitylenesulfonyloxy-ethyl-piperone
1591	Fluoroethylpiperone
1592	D-threo-N-NPS-Ritalinic acid
1593	D-threo-Methylphenidate hydrochloride
1600	(R)-N-Desmethyl PK11195
1609	(S)-PK 11195
1610	(R)-PK11195
1611	(R,S)-PK11195
1620	(S)-N-Desmethyl PK11195

1640	(R,S)-N-Desmethyl PK11195
1642	(+)-9-MeO-HNO hydrochloride
1643	(+)-HNO hydrochloride
1645	(+)-PHNO hydrochloride
1646	(+)-F-PHNO
1647	(+)-HNO hydrochloride (GMP)
1652	PBR28 precursor
1653	PBR28 standard
1654	FEPPA precursor
1655	FEPPA standard
1680	Azidomazenil
1681	Desmethy lazidomazenil
1690	Nitromazenil
1691	Mazenil pinacol boronate
1700	Desmethylflumazenil
1710	Flumazenil
1720	Flumazenil acid
1721	Tosyloxyethylflumazenil
1730	Fluoroethylflumazenil
1753	Harmol
1755	Harmine
1760	(R)-Metomidate hydrochloride
1762	(S)-Metomidate hydrochloride
1770	(R)-Etomidate
1780	(R)-Desethyl-Etomidate
1782	(S)-Desethyl-Etomidate
1790	(R)-Fluoroethyl-Etomidate
1800	Nitro-Altanserine
1810	Altanserine
1820	Nitro-Setoperone
1830	Setoperone
1840	MDL105725
1850	MDL100907
1860	MDL100151
1870	MDL100907 tartrate salt
1880	SB206453
1881	SB206453 (GMP)
1882	SB207145
1900	MMSE
1910	16 α -Fluoroestradiol
1916	FDHT precursor
1918	FDHT standard
1919	TNB-Androstanone
1926	FFNP precursor
1928	FFNP standard
2000	3-O-Trityl-6-O-desmethyl-diprenorphine
2010	Diprenorphine hydrochloride
2020	Diprenorphine
2030	3-O-Trityl-diprenorphine
2040	6-O-Fluoroethyl-6-O-desmethyl-diprenorphine
2050	6-O-Fluoroethyl-6-O-desmethyl-3-O-trityl-diprenorphine
2051	3-O-Trityl-6-O-desmethyl-phenethyl-orvinol
2052	Phenethyl-orvinol

2053	6-O-(2-Fluoroethyl)-6-O-desmethyl-phenethyl-orvinol
2055	3-O-Trityl-6-O-desmethyl-buprenorphine
2056	Buprenorphine hydrochloride
2060	(S)-(-)-Normethylcarbamoyl-GR 103545
2061	(R)-(+)-Normethylcarbamoyl-GR 103545
2062	Normethylcarbamoyl-GR 89696
2070	GR 89696 fumarate
2071	(R)-(-)-GR103545 fumarate
2072	(S)-(+)-GR89696 fumarate
2110	Acetic acid piperidin-4-yl ester hydrochloride
2120	Acetic acid 1-methyl-piperidin-4-yl ester hydrochloride
2130	Propionic acid piperidin-4-yl ester hydrochloride
2140	Propionic acid 1-methyl-piperidin-4-yl ester hydrochloride
2150	Butyric acid piperidin-4-yl ester hydrochloride
2160	Butyric acid 1-methyl-piperidin-4-yl ester hydrochloride
2200	L-Homocysteine
2205	D,L-Homocysteine
2210	L-Homocysteine thiolactone hydrochloride
2220	L-Methionine
2229	D-Methionine
2230	D,L-Methionine
2300	N-Boc-trans-4-tosyloxy-L-proline methyl ester
2301	N-Boc-trans-4-mesyloxy-D-proline tert-butyl ester
2310	N-Boc-cis-4-tosyloxy-L-proline methyl ester
2320	cis-4-Fluoro-L-proline
2321	cis-4-Fluoro-D-proline hydrochloride
2330	trans-4-Fluoro-L-proline
2340	rac [¹¹ C]-AIB precursor
2342	S-[¹¹ C]-AIB precursor
2390	Desmethylocarfenatol acid
2400	Desmethylocarfenatol, sodium salt
2420	Fluoroethyl-Carfenatol
2421	Fluoroethyl-Carfenatol hydrochloride
2450	(S)-FPSPPA
2460	(R)-FPSPPA
2470	(S)-Methyl-FPSPPA
2480	(R)-Methyl-FPSPPA
2500	(R)-Desisopropylcarazolol
2510	(S)-Desisopropylcarazolol
2511	(R,S)-Desisopropylcarazolol
2520	(R)-Carazolol
2530	(S)-Carazolol
2540	(R,S)-Carazolol
2550	(S)-N-Desisopropylpropranolol
2570	GB 99
2580	GB 67
2590	(S)-1-(2-Amino-3-nitrophenoxy)-3-tert-butylamino-propan-2-ol
2700	4-(2-Keto-3-methyl-1-benzimidazolyl)piperidine
2750	Cyclopropyl-p-nitrophenyl ketone
2760	FNMB
2800	3-O-Benzyl-naltrindole
2810	N-Methylnaltrindole

2830	QNB
2840	Me-QNB
2850	Benzyl-14-(R,S)-tosyloxy-6-thiaheptadecanoate
2860	14-(R,S)-Fluoro-6-thiaheptadecanoic acid
2869	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -L-ribofuranose
2870	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -D-ribofuranose
2871	5-Ethyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine
2872	5-Methyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine
2873	Bis(trimethylsilyl)cytosine
2874	L-FEAU
2875	α -L-FEAU
2876	FEAU
2877	α FEAU
2878	FMAU
2879	α FMAU
2880	FTRU
2890	FTAU
2900	FAU
2910	FIAU
2920	FUdR
2921	Di-THP-nosyl-AUR
2922	FIRU
2930	FAC
2931	α FAC
2940	3'-Fluoro-2',3'-dideoxyuridine
2948	5-Trimethylstannyl-2'-deoxyuridine
2949	IUdR
2950	2'-Deoxy-L-uridine
2952	Nitro-Xeloda
2953	Xeloda
2954	2',3'-Didehydro-3'-deoxythymidine
2958	5-Fluorouracil precursor
2960	Tosyl-FHBG
2970	FHBG
3000	N,O-Di-Boc-2-TMSn-L-tyrosine ethyl ester
3010	2-Fluoro-tyrosine
3020	2-Iodo-tyrosine
3035	Thyronamine Hydrochloride
3036	3-Iodothyronamine Hydrochloride
3050	TET
3051	TET (GMP)
3052	TET (GMP)
3061	FET hydrochloride
3071	D-FET hydrochloride
3081	(L)-HET hydrochloride
3100	N-Trifluoroacetyl-5-acetoxy-2-trimethylstannyl-phenylalanine ethyl ester
3110	N,O-Di-Boc-2-TMSn-m-tyrosine ethyl ester
3130	2-Fluoro-m-Tyrosine
3180	2-Iodo- α -methyl-p-tyrosine
3190	3-Iodo- α -methyl-p-tyrosine
3191	(S)-tert-Butyl 2-((tert-butoxycarbonyl) amino)-4-Iodobutanoat
3200	WAY 100634

3210	WAY 100635
3220	Desmethyl-WAY100635
3230	Desmethyl-WAY 100634
3240	Nitro-MPPF
3250	MPPF
3260	Desmethyl-MPT
3270	MPT
3300	TAP
3310	IAP
3320	Nitro-AP
3340	FAP tartrate
3350	TMA-AP
3351	(-)-Flubatine standard
3353	(-)-Flubatine precursor
3354	(-)-Flubatine precursor (GMP)
3355	(+)-Flubatine standard
3357	(+)-Flubatine precursor
3358	(+)-Flubatine precursor (GMP)
3371	ASEM precursor
3380	Metaraminol (free base)
3390	Metaraminol bitartrate
3400	MHED hydrochloride
3500	Desmethyl-GR 205171
3510	GR 205171
3520	Desmethyl-GR 205171 Dihydrochloride
3530	GR 205171 Dihydrochloride
3540	Desmethyl-CNS 5161
3550	CNS 5161
3560	Desmethyl ABP688
3561	Desmethyl ABP688 (GMP)
3570	ABP688
3571	FPEB precursor
3572	FPEB standard
3590	ISOM
3591	ISOF
3700	Desmethyl-SCH-442416
3710	SCH-442416
3720	Desmethyl-MK-8278
3750	CPTPX
3751	CPFPX
4000	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)tropane
4020	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane
4030	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)tropane
4040	TMS-CT
4041	TBS-CT
4050	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)nortropane
4060	(-)-2-beta-Carbomethoxy-3-beta-(phenyl)tropane
4100	CITFES
4110	CITFE
4122	CITTP Tosylate
4130	CITFP
4132	TBSCT-FP

4140	beta-CIT acid
4150	2-FE-beta-CIT
4160	PE2I acid
4165	PE2I tin precursor
4170	PE2I
4172	TEO-PE2I
4173	FE-PE2I
4180	Nor-beta-CCIT
4190	FECNT
4200	Altropane acid
4201	Altropane acid hydrochloride
4210	Altropane
4211	Altropane hydrochloride
4230	Norbenztropine
4231	Benztropine Mesylate
4300	MASB
4301	MASB (GMP)
4310	DASB
4311	DASB (GMP)
4320	AFM precursor
4330	AFM standard
4360	(+)-McN 5652 Thiobutyrate
4370	(+)-McN 5652
4380	(-)-McN 5652
4381	(+)-Fluoromethyl-McN 5652
4383	FBAM precursor
4384	FBAM standard
4385	CPTMA
4386	CMTMA
4389	TBAB
4390	PMBAB
4391	FB precursor
4392	SFB
4393	[¹⁸ F]FPyBrA/[¹⁸ F]FPyME precursor
4394	FPyME standard
4396	[¹⁸ F]FPyKYNE precursor
4397	FPyKYNE
4398	FBEM precursor
4399	FBEM standard
4400	(2S,3S)-N-Boc-norethylreboxetine
4402	(2S,3S)-N-Boc-carboxylreboxetine
4403	(2S,3S)-Carboxylreboxetine fluoroethyl ester trifluoroacetate
4405	Methylreboxetinecarboxylate
4406	(2S,3S)-Methylreboxetine
4407	(2S,3S)-Desethylreboxetine
4500	Norbinaltorphimine dihydrochloride
4600	(-)-TEBV
4610	(-)-FEBV
4700	(±)-9-O-Desmethyl-α-dihydrotetrabenazine
4710	(+)-9-O-Desmethyl-α-dihydrotetrabenazine
4720	(-)-9-O-Desmethyl-α-dihydrotetrabenazine
4730	(±)-α-Dihydrotetrabenazine

4731	(±)-beta-Dihydrotetrabenazine
4732	(±)-Tetrabenazine
4733	(±)-9-O-Desmethyl-tetrabenazine
4900	Aminothiadiazine
4910	Chlorothiadiazine
5000	DMTEAN
5010	DFEAN
5020	DMEAN
5030	DMFEAN
5100	6-OH-BTA-0
5101	6-OH-BTA-0 (GMP)
5110	6-MOMO-BTA-0
5111	6-MOMO-BTA-0 (GMP)
5120	6-OH-BTA-1 hydrochloride
5130	6-MeO-BTA-0
5140	6-OH-BTA-1 (free base)
5149	6-O-Tosyloxyethyl-CBT
5150	[¹⁸ F]Lansoprazole Precursor
5165	Astemizole
5166	O-Desmethyl Astemizole
5200	Desmethyl-PD 153035
5210	PD 153035
5600	Norverapamil
5620	(-)-Norverapamil
5630	(+)-Verapamil hydrochloride
5700	N-Demethylrifampicin
6000	Rolipram
6010	(S)-(+)-Rolipram
6020	(R)-(-)-Rolipram
6030	Desmethyl-Rolipram
6040	(S)-(+)-Desmethyl-Rolipram
6050	(R)-(-)-Desmethyl-Rolipram
6100	Dimethylaminoethanol
6120	Fluoroethylcholine tosylate
6130	Fluoromethylcholine chloride
6140	Fluoromethylcholine bromide
6141	Bromocholine bromide
6150	Choline chloride
6160	Fluoroethylcholine chloride
6170	Choline iodide
6173	DMMB
6174	BHTMEDA
6175	Dibromoethane
6176	Dibromomethane
6177	Bis(tosyloxy)methane
6179	1,2-Bis(nosyloxy)ethane
6180	1,2-Bis(tosyloxy)ethane
6181	2-Bromoethyl nosylate
6182	2-Bromoethyl triflate
6183	2-Bromoethyl tosylate
6184	2-Fluoroethyl tosylate
6185	Bis(tosyl)-1,4-butanediol

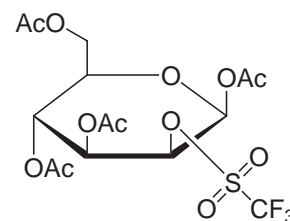
6186	1,4-Bis(tosyloxy)but-2-yne
6190	3-Fluoropropyltosylate
6191	1,3-Propane-di-tosylate
6194	Fluoromethyl tosylate
6200	Ethyl (p-tosyloxy)acetate
6210	Potassium fluoroacetate
6211	Sodium fluoroacetate
6221	DBCO-SCN
6301	1-Tosyloxy-3-butyne
6302	1-Tosyloxy-4-pentyne
6303	1-Tosyloxy-5-hexyne
6305	Tosyl-propargyl-diethylene glycol
6307	Tosyl-propargyl-triethylene glycol
6308	Fluoro-propargyl-triethylene glycol
6320	3-(4-Azidophenoxy)propyl methansulfonate
6351	(S)-O-Tosyl-1,2-Epoxybutanol
6500	Dimethyl-8-acetyl-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate
6510	α -Methyl-L-tryptophan
6520	Dimethyl-8-phenylsulfonyl-5-phenylsulfonyloxy-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate
6532	5-FEHP hydrochloride
7000	MIBG Hemisulfate
7001	MIBG Hemisulfate (GMP)
7010	MTMSBG
7012	TMSnBG
7014	SGMIB Standard
7015	SGMIB Precursor
7020	CNS 1261
7030	TBS-CNS 1261
7033	MFBG pinacol boronate precursor
7034	MFBG hydrochloride
7050	Mebrofenin
7060	Disofenin
7080	Succinimidyl-N-Boc-Hynic
7090	Succinimidyl-Hynic hydrochloride
7100	S-Benzoyl-MAG-3
7110	MAG 3
7111	(Benzoylmercapto)acetic acid
7150	BMEDA
7160	MDP
7161	HMDP
7165	EDTMP
7200	MIBI
7210	Copper tetraMIBI tetrafluoroborate $[\text{Cu}(\text{MIBI})_4]\text{BF}_4$
7211	Copper tetraMIBI tetrafluoroborate (GMP)
7220	Zinc-TBI
7250	EC
7260	ECD
7270	TFP-N-sucDf-Fe
7281	TACN
7284	PrP9
7290	Cyclen
7300	DOTA

7301	DOTAEt
7310	Tetrofosmin
7312	Disodium sulfosalicylate
7320	BPAMD
7330	HBED-CC-tris(tBu)ester
7331	HBED-CC-di(tBu)ester
7400	TRODAT
7500	S-(-)-BZM
7510	S-(-)-IBZM
7520	Gallium Citrate (complex)
7600	16-Iodohexadecanoic acid
800	Cryptand 222
801	Lithium Aluminium Hydride in THF bulk
802	Lithium aluminium hydride (0.1 M in THF)
803	Lithium aluminium hydride (0.25 M in THF)
804	Lithium aluminium hydride (0.05 M in THF)
808	Tetrabutylammonium Hydrogen Carbonate (0.075 M) - Aqueous solution, stabilized with ethanol
831	Pentadecylmagnesium bromide 0.5 M in diethyl ether
832	Lithium aluminium hydride (0.1 M in THF)
9500	Fmoc-Lys(ivDde)-OH
9510	PMPA
9600	Ubiquicidin (29-41) acetate
9601	DOTA-Ubiquicidin (29-41) acetate
9602	Scrambled Ubiquicidin (29-41)
9603	NOTA-Ubiquicidin (29-41) acetate
9702	DOTATOC (GMP)
9703	Ga-DOTA-TOC acetate
9704	Y-DOTA-TOC
9705	Lu-DOTA-TOC
9712	DOTA-NOC acetate
9714	AMBA acetate
9715	DOTA-[Pro ¹ ,Tyr ⁴]bombesin (1-14)
9716	DOTA-NOC acetate (GMP)
9717	Ga-DOTA-NOC
9718	NODAGA-NOC acetate
9721	HYNIC-TOC trifluoroacetate
9730	HYNIC-NOC trifluoroacetate
9740	Pentreotide trifluoroacetate
9744	DTPA-TOC trifluoroacetate
9750	Octreotide acetate
9752	[Na ³]Octreotide acetate
9760	TETA-Octreotide acetate
9762	NOTA-Octreotide trifluoroacetate
9765	NOTA-NOC acetate
9771	Gluc-[Lys ⁰ ,Lys(ivDde) ⁵]-TOCA
9772	DOTA-TATE acetate (GMP)
9773	Ga-DOTA-TATE
9774	[Tyr ³]Octreotate acetate
9778	Gluc-Lys(FP)-TOCA
9782	ICG-TATE
9790	Galacto-RGD
9800	Fluoropropionyl-Galacto-RGD

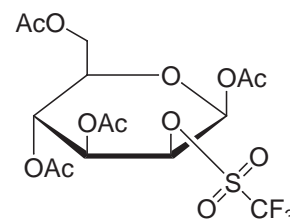
9802	NOTA-RGDfK acetate
9803	Ga-NODAGA-RGD dimer
9804	NODAGA-RGD dimer acetate
9805	NODAGA-RGD trifluoroacetate
9806	NODAGA-RGD (GMP)
9807	Ga-NODAGA-RGD
9810	[Tyr ³]Octreotide acetate
9814	NODAGA-AMBA trifluoroacetate
9815	NOTA-AMBA trifluoroacetate
9816	[Pro ¹ ,Tyr ⁴]bombesin (1-14)
9820	Lanreotide trifluoroacetate
9831	DOTA-Lanreotide acetate
9836	HYNIC-Lanreotide trifluoroacetate
9850	4-Formyl-N,N,N-Trimethylanilinium triflate
9855	DOTA-NAPamide trifluoroacetate
9857	DOTA-Sargastrin
9860	Cyclo-RGDfK
9861	Cyclo-RGDfK dimer trifluoroacetate
9862	DOTA-RGDfK dimer acetate
9863	DOTA-cyclo(RGDfK) acetate
9864	HYNIC-cyclo(RGDfK) trifluoroacetate
9866	DTPA-Bn-cyclo(RDGfK) dimer trifluoroacetate
9867	HYNIC-cyclo(RGDfK) dimer trifluoroacetate
9900	[Tyr ³ ,Lys ⁵ (Boc)]octreotide acetate
9901	[Lys ⁵ (Boc)]octreotate acetate
9902	[Lys ⁵ (Boc)]lanreotide acetate
9903	[Nal ³ ,Lys ⁵ (Boc)]octreotide acetate
9908	5(6)-FAM-TATE
9919	PSMA-11 (GMP)
9920	PSMA-11
9921	PSMA-11 (GMP)
9922	GaPSMA-11
9923	PSMA-10
9925	DCFPyL reference standard
9933	PSMA-617
9934	PSMA-617 (GMP)
9935	GaPSMA-617
9936	LuPSMA-617
9941	deprotected DCFPyL precursor
9943	PSMA-1007 precursor
99433	PSMA-1007 reference standard
9960	DOTA-Substance P
9960	DOTA-Substance P

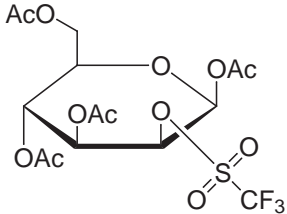
Product List

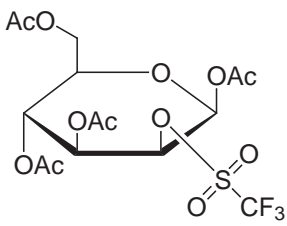
Product Number	Product	Order number / Unit
100	<p>Mannose Triflate, ultra pure</p> <p>Precursor for [¹⁸F]FDG</p> <p>(2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37</p> <p>[92051-23-5]</p> <p>Colourless or nearly colourless crystals packaged in 2 ml dark glass vials (DIN 2R) with teflon-faced rubber stoppers, center tear-off crimp caps (less than 100 mg) or dark glass screw cap vials (100 mg or more) argon flushed.</p> <p>Melting range 119 - 122 degC. Soluble in acetonitrile, acetone, DMSO, methanol. Insoluble in aqueous media.</p> <p>Purity: > 99 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra; HPLC; IR spectrum; melting point</p> <p>Chemical Name: CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethane-sulfonate)</p> <p>Synonymes: TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoromethanesulfonyl-beta-D-mannopyranose</p> <p>Literature: Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238. Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445. Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding α-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337. Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-[¹⁸F]FDG. XIIth ISRC. Uppsala, Sweden 1997, 214-216.</p>	<p>100.0020: 20 mg per vial 100.0100: 100 mg per vial 100.0400: 400 mg per vial 100.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p>



Product Number	Product	Order number / Unit
101	Mannose Triflate, ultra pure	101.0020: 20 mg per vial
	Precursor for [¹⁸F]FDG	101.0025: 25 mg per vial
	(2-[¹⁸F]Fluoro-2-deoxy-D-glucose)	101.0040: 40 mg per vial
		101.0062: 62 mg per vial
		Please inquire for customized filling and bulk quantities.
	packing for GE TRACERlab MXFDG	
	C ₁₅ H ₁₉ F ₃ O ₁₂ S Molar Mass: 480.37	
	[92051-23-5]	
	Colourless or nearly colourless crystals packaged in clear glass vials (10 ml headspace) with teflon-faced rubber stoppers, center tear-off crimp caps, argon flushed.	
	Melting range 119 - 122 degC. Soluble in acetonitrile, acetone, DMSO, methanol. Insoluble in aqueous media.	
	Purity: > 99 %	
	Certificates:	
	CoA; ¹ H and ¹⁹ F NMR spectra; HPLC; IR spectrum; melting point	
	Chemical Name:	
	CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethane-sulfonate)	
	Synonymes:	
	TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoromethanesulfonyl-beta-D-mannopyranose	
	Literature:	
	Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸ F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.	
	Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445.	
	Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding α-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337.	
	Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-[¹⁸ F]FDG. XIIth ISRC. Uppsala, Sweden 1997, 214-216.	



Product Number	Product	Order number / Unit
102	<p>Mannose Triflate, ultra pure Precursor for [¹⁸F]FDG (2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>packing for FDG MicroLab (GE) C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37 [92051-23-5]</p> <p>Colourless or nearly colourless crystals packaged in 2 ml dark glass vials (for GE Microlab) with teflon-faced rubber stoppers, tear-off crimp caps, argon flushed.</p> <p>Melting range 119 - 122 degC. Soluble in acetonitrile, acetone, DMSO, methanol. Insoluble in aqueous media.</p> <p>Purity: > 99 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra; HPLC; IR spectrum; melting point</p> <p>Chemical Name: CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethane-sulfonate)</p> <p>Synonymes: TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoromethanesulfonyl-beta-D-mannopyranose</p> <p>Literature: Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.</p> <p>Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445.</p> <p>Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding α-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337.</p> <p>Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-[¹⁸F]FDG. XIIth ISRC. Uppsala, Sweden 1997, 214-216.</p>	<p>102.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
105	<p>Mannose Triflate PLUS, ultra pure Precursor for [¹⁸F]FDG (2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>Manufactured according to GMP requirements for APIs (ICH Q7) Pharmaceutical grade (EDMF/DMF)</p> <p>C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37 [92051-23-5]</p> <p>Colourless or nearly colourless crystals packaged in 2 ml dark glass vials (DIN 2R) with teflon-faced rubber stoppers, tear-off crimp caps, argon flushed.</p> <p>Melting range 119 - 122 degC. Soluble in acetonitrile, acetone, DMSO, methanol. Insoluble in aqueous media.</p> <p>Purity: > 99 %</p> <p>Certificates: CoA with ¹H, ¹⁹F NMR, and IR spectra, specific optical rotation and melting point (identity), HPLC, GC, and thermogravimetry (chemical purity); testing for bacterial endotoxines and sterility (microbiological purity)</p> <p>Chemical Name: CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethane-sulfonate)</p> <p>Synonymes: TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoromethanesulfonyl-beta-D-mannopyranose</p>	<p>105.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Literature:

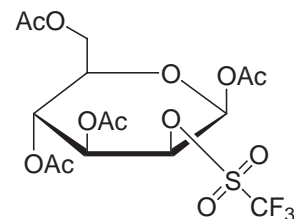
Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.

Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445.

Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding α-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337.

Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-[¹⁸F]FDG. XIIth ISRC. Uppsala, Sweden 1997, 214-216.

Product Number	Product	Order number / Unit
107	<p>Mannose Triflate PLUS, ultra pure Precursor for [¹⁸F]FDG (2-[¹⁸F]Fluoro-2-deoxy-D-glucose) Manufactured according to GMP requirements for APIs (ICH Q7) Pharmaceutical grade (EDMF/DMF)</p> <p>C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37 [92051-23-5] Colourless or nearly colourless crystals packaged in clear glass vials (10 ml headspace) with teflon-faced rubber stoppers, tear-off crimp caps, argon flushed. Melting range 119 - 122 degC. Soluble in acetonitrile, acetone, DMSO, methanol. Insoluble in aqueous media. Purity: > 99 % Certificates: CoA with ¹H, ¹⁹F NMR, and IR spectra, specific optical rotation and melting point (identity), HPLC, GC, and thermogravimetry (chemical purity); testing for bacterial endotoxines and sterility (microbiological purity) Chemical Name: CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethane-sulfonate) Synonymes: TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoromethanesulfonyl-beta-D-mannopyranose</p>	<p>107.0020: 20 mg per vial 107.0025: 25 mg per vial 107.0040: 40 mg per vial Please inquire for customized filling and bulk quantities.</p>



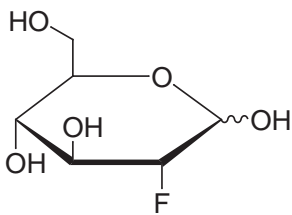
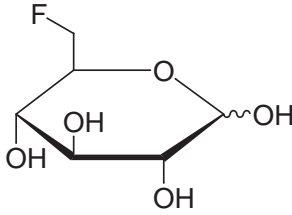
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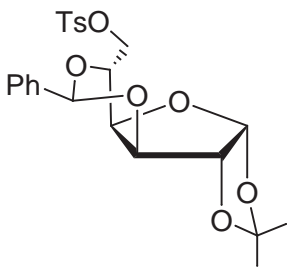
Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.

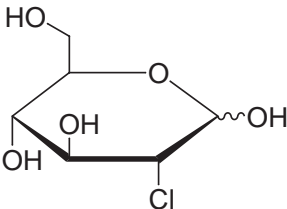
Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445.

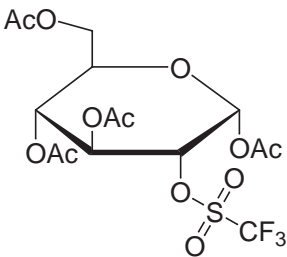
Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding α-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337.

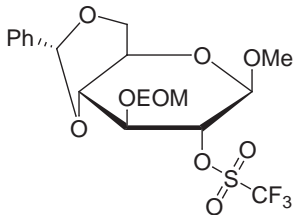
Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-[¹⁸F]FDG. XIIth ISRC. Uppsala, Sweden 1997, 214-216.

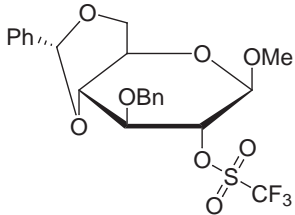
Product Number	Product	Order number / Unit
1100	FDG Reference standard for [¹⁸F]FDG (2-[¹⁸F]Fluoro-2-deoxy-D-glucose) $C_6H_{11}FO_5$ Molar Mass: 182.15 [86783-82-6] (cyclic form) [29702-43-0] (aldehyde form) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: D-Glucopyranose, 2-deoxy-2-fluoro- Synonyms: 2-Deoxy-2-fluoro-D-glucose, 2-Deoxy-fluoro-glucose; Fludeoxyglucose Literature: Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸ F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238. Padgett H.C. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-45. Tóth G. et al. Synthesis of 2-deoxy-2-[¹⁸ F]Fluoro-D-glucose and its precursors for human diagnostics. Izotóptechnika, Diagnosztika 1992, 35, 65-72. Füchtner F. et al. Basic Hydrolysis of 2-[¹⁸ F]Fluoro-1,3,4,6-tetra-O-acetyl-D-glucose in the Preparation of 2-[¹⁸ F]Fluoro-D-glucose. Appl. Radiat. Isot. 1996, 47, 61-66.	1100.0010: 10 mg per vial 1100.0020: 20 mg per vial 1100.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.
		
Product Number	Product	Order number / Unit
1108	6-Deoxy-6-fluoro-D-glucopyranose Reference standard for 6-[¹⁸F]Fluoro-6-deoxy-D-glucose $C_6H_{11}FO_5$ Molar Mass: 182.15 [34168-77-9] pyranoside [4536-08-7] open-chain Colourless or nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: D-glucopyranose, 6-deoxy-6-fluoro- Synonyms: 6-Deoxy-6-fluoro-D-glucose; 6-Deoxy-6-fluoro-D-glucopyranose; 6-FDG Literature: Neal T.R. et al. Synthesis of [¹⁸ F]-6-deoxy-6-fluoro-D-glucose ([¹⁸ F]6-FDG), a potential tracer of glucose transport. J. Labelled. Compds. Radiopharm. 2005, 48, 845-854. Spring-Robinson C. et al. Uptake of 18F-labeled 6-fluoro-6-deoxy-D-glucose by skeletal muscle is responsive to insulin stimulation. J. Nucl.Med. 2009, 50, 912-919.	1108.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.
		

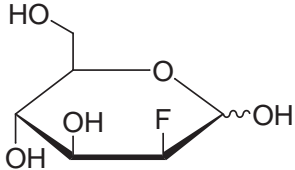
Product Number	Product	Order number / Unit
1109	<p>6-FDG precursor Precursor for 6-[¹⁸F]FDG (6-[¹⁸F]Fluoro-6-deoxy-D-glucose) C₂₃H₂₆O₈S Molar Mass: 462.51 [899808-81-2] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 3,5-O-Benzylidene-1,2-O-isopropylidene-6-O-tosyl- α-D-glucofuranose</p> <p>Synonymes: α-D-Glucofuranose, 1,2-O-(1-methylethylidene)-3,5-O-[(S)-phenylmethylene]-, 4-methylbenzenesulfonate</p> <p>Literature: Blakely R.L. et al. 6-Fluoro-6-deoxy-D-glucose as a Tracer of Glucose Transport. Biochem. Preparations 1960, 7, 39-44. Neal T.R. et al. Synthesis of [¹⁸F]-6-deoxy-fluoro-D-glucose ([¹⁸F]6-FDG), a potential tracer of glucose transport. J. Labelled Compd. Radiopharm. 2005, 48, 845-854.</p>	<p>1109.0010: 10 mg per vial 1109.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

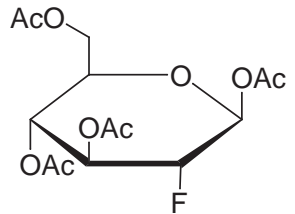
Product Number	Product	Order number / Unit
1110	<p>CIDG</p> <p>Reference standard for byproduct of [¹⁸F]FDG synthesis (2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>Caution, hygroscopic!</p> <p>C₆H₁₁ClO₅ Molar Mass: 198.6</p> <p>[14685-79-1]</p> <p>Colourless to nearly colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: D-Glucose, 2-chloro-2-deoxy-</p> <p>Synonyms: 2-Chloro-2-deoxy-D-glucose; 2-Chloro-DG; CIDG; 2-CIDG</p> <p>Literature: Alexoff D.L. et al. Ion chromatographic analysis of high specific activity [¹⁸F]FDG preparations and detection of the chemical impurity 2-deoxy-2-chloro-D-glucose. Appl. Radiat. Isot. 1992, 43, 1313-1322.</p> <p>Colville C.A. et al. Analysis of the structural requirements of sugar binding to the liver, brain and insulin-responsive glucose transporters expressed in oocytes. Biochem. J. 1993, 294, 753-760.</p>	<p>1110.0010: 10 mg per vial</p> <p>1110.0020: 20 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1117	<p>Glucose Triflate</p> <p>Precursor for [¹⁸F]FDM (2-[¹⁸F]Fluoro-2-deoxy-D-mannose)</p> <p>C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37</p> <p>[113544-40-4]</p> <p>Colourless crystals packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 1,3,4,6-tetra-O-acetyl-2-Otrifluoromethanesulfonyl-α-D-glucopyranose</p> <p>Synonyms: TATG</p> <p>Literature: Furomoto S. et al. In Vitro and In Vivo Characterization of 2-Deoxy-2-18F-Fluoro-d-Mannose as a Tumor-Imaging Agent for PET. J. Nucl. Med. 2013, 54, 1354-1361.</p> <p>Tahara N. et al. 2-deoxy-2-[¹⁸F]fluoro-D-mannose positron emission tomography imaging in atherosclerosis. Nature Medicine 2014, 20, 215-219.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

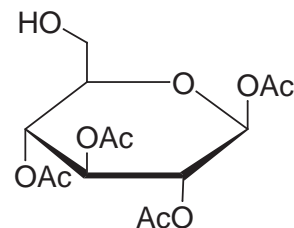
Product Number	Product	Order number / Unit
1118	<p>MBETG</p> <p>Precursor for [¹⁸F]FDM (2-[¹⁸F]Fluoro-2-deoxy-D-mannose)</p> <p>C₁₈H₂₃F₃O₉S Molar Mass: 472.43</p> <p>CAS-RN not yet assigned</p> <p>Colourless crystals packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: 4,6-O-Benzylidene-3-O-ethoxymethyl-2-O-trifluoromethanesulfonyl-1-O-methyl-β-D-glucopyranoside</p> <p>Synonyms: n/a</p> <p>Literature: Furomoto S. et al. In Vitro and In Vivo Characterization of 2-Deoxy-2-18F-Fluoro-d-Mannose as a Tumor-Imaging Agent for PET. J. Nucl. Med. 2013, 54, 1354-1361. Tahara N. et al. 2-deoxy-2-[¹⁸F]fluoro-D-mannose positron emission tomography imaging in atherosclerosis. Nature Medicine 2014, 20, 215-219.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1119	<p>MBBTG</p> <p>Precursor for [¹⁸F]FDM (2-[¹⁸F]Fluoro-2-deoxy-D-mannose)</p> <p>C₂₂H₂₃F₃O₈S Molar Mass: 504.47</p> <p>[107794-71-8]</p> <p>Colourless powder packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: beta-D-Glucopyranoside, methyl 3-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylene]-, trifluoromethanesulfonate</p> <p>Synonyms: β-D-Glucopyranoside, methyl 3-O-(phenylmethyl)-4,6-O-(phenylmethylene)-, trifluoromethanesulfonate, (R)-; Pyrano[3,2-d]-1,3-dioxin, β-D-glucopyranoside deriv.; Methyl 3-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylene]-2-O-trifluoromethanesulfonyl-β-D-glucopyranoside; Methyl 3-O-benzyl-4,6-O-benzylidene-2-O-trifluoromethanesulfonyl-β-D-glucopyranoside</p> <p>Literature: Luxen A. et al. Stereospecific Approach to the Synthesis of [¹⁸F]-2-Deoxy-2-Fluoro-D-Mannose. Int. J. Radiat. Appl. Instrum. Part A, Appl. Radiat. Isot. 1986, 37, 409-413.</p>	<p>1119.0010: 10 mg per vial 1119.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

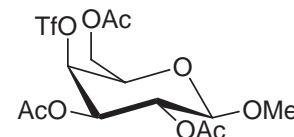
Product Number	Product	Order number / Unit
1120	<p>FDM</p> <p>Reference standard for byproduct of [¹⁸F]FDG synthesis (2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>C₆H₁₁FO₅ Molar Mass: 182.15</p> <p>[31077-88-0]</p> <p>Colourless to slightly coloured semisolid/solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: D-Mannopyranose, 2-deoxy-2-fluoro</p> <p>Synonyms: 2-Fluoro-2-deoxy-D-mannopyranose; 2-Deoxy-2-fluoro-D-mannopyranose</p> <p>Literature: Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.</p>	<p>1120.0010: 10 mg per vial</p> <p>1120.0020: 20 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

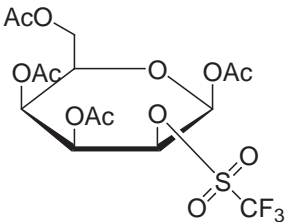
Product Number	Product	Order number / Unit
1130	<p>ACY-FDG</p> <p>Reference standard for byproduct of [¹⁸F]FDG synthesis (2-[¹⁸F]Fluoro-2-deoxy-D-glucose)</p> <p>C₁₄H₁₉FO₉ Molar Mass: 350.29</p> <p>[31077-89-1]</p> <p>Yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: D-Glucopyranose, 2-deoxy-2-fluoro-, tetraacetate</p> <p>Synonyms: 2-Fluoro-2-deoxy-glucose tetraacetate</p> <p>Literature: Kovac P. Short synthesis of 2-Deoxy-2-fluoro-D-glucose. Carbohydr. Res. 1986, 153, 168-170.</p>	<p>1130.0010: 10 mg per vial</p> <p>1130.0020: 20 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

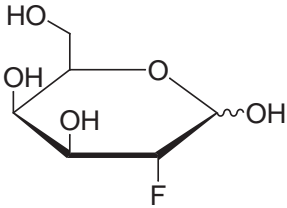
Product Number	Product	Order number / Unit
1131	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose TLC Standard for Testing of Radiochemical Purity of [¹⁸F]FDG according to Ph. Eur. 6.2, 1325 $C_{14}H_{20}O_{10}$ Molar Mass: 348.3 [13100-46-4] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: beta-D-Glucopyranose, 1,2,3,4-tetraacetate Synonyms: Glucopyranose, 1,2,3,4-tetraacetate, β -D-; 1,2,3,4-Tetra-O-acetyl- β -D-glucopyranose; 1,2,3,4-Tetra-O-acetyl- β -D-glucose; 6-OH-TAG Literature: European Pharmacopoeia 6.2, 3678-3680.	1131.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.



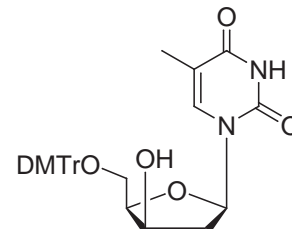
Product Number	Product	Order number / Unit
1138	Me-4-FDG precursor Precursor for Me-4-[¹⁸F]FDG Methyl 4-deoxy-4-[¹⁸F]fluoro-β-D-glucopyranoside $C_{14}H_{19}F_3O_{11}S$ Molar Mass: 452.36 [174618-11-2] Colourless to off-white solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: β -D-Galactopyranoside, methyl, 2,3,6-triacetate 4-(trifluoromethanesulfonate) Synonyms: Methyl 2,3,6-Tri-O-acetyl-4-O-triflyl- β -D-galactopyranoside Literature: Yu A.S. et al. Functional expression of SGLTs in rat brain. Am. J. Physiol. Cell. Physiol. 2010, 299, C1277-C1284.	Please inquire for customized filling and bulk quantities.



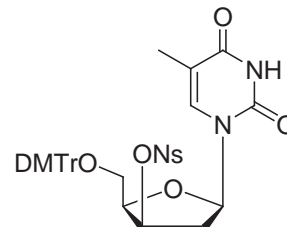
Product Number	Product	Order number / Unit
1140	<p>Talose Triflate</p> <p>Precursor for [¹⁸F]FDGal (2-[¹⁸F]Fluoro-2-deoxy-D-galactose)</p> <p>C₁₅H₁₉F₃O₁₂S Molar Mass: 480.37</p> <p>CAS-RN not yet assigned</p> <p>Colourless or nearly colourless crystals packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: 1,3,4,6-Tetra-O-acetyl-2-O-trifluoromethanesulfonyl-β-D-talopyranose</p> <p>Synonyms: β-D-talopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethanesulfonate)</p> <p>Literature: Fukuda H. et al. (F-18)-2-Deoxy-2-Fluoro-D-Galactose: A Potential Tracer for the Assessment of Sugar Metabolism in the Liver by Positron Emission Tomography. Cyric Annual Report 1982, 188-195.</p>	<p>1140.0010: 10 mg per vial 1140.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

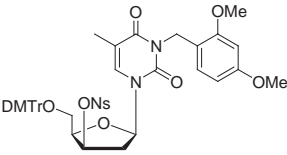
Product Number	Product	Order number / Unit
1150	<p>FDGal</p> <p>Reference standard for [¹⁸F]FDGal (2-[¹⁸F]Fluoro-2-deoxy-D-galactose)</p> <p>C₆H₁₁FO₅ Molar Mass: 182.15</p> <p>[7226-39-3]</p> <p>Colourless solid to reddish foam packaged in dark glass screw cap vials.</p> <p>Purity: > 90 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2-Deoxy-2-fluoro-D-galactose</p> <p>Synonyms: 2-Deoxy-2-fluoro-D-galactopyranose; 3-Fluoro-6-hydroxymethyl-tetrahydro-pyran-2,4,5-triol</p> <p>Literature: Barlow J. et al. Enzymatic synthesis of UDP-(3-deoxy-3-fluoro)-D-galactose and UDP-(2-deoxy-2-fluoro)-D-galactose and substrate activity with UDP-galactopyranose mutase. Carbohydr. Research 2000, 328, 473-480. Geilen C. et al. A simple synthesis of 2-Deoxy-2-fluoro-D-galactose using xenon difluoride, Tetrahedron Lett. 1992, 33, 2435-2438.</p>	<p>1150.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

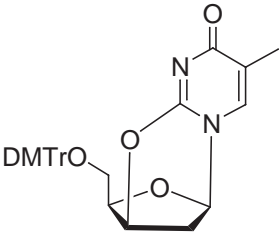
Product Number	Product	Order number / Unit
1180	DMTr-lyxothymidine	1180.0010: 10 mg per vial
	Precursor for [¹⁸F]FLT	1180.0020: 20 mg per vial
	(3'-Deoxy-3'-[¹⁸F]fluorothymidine)	1180.0025: 25 mg per vial
	C ₃₁ H ₃₂ N ₂ O ₇ Molar Mass: 544.6	1180.0030: 30 mg per vial
	[112501-53-8]	1180.0040: 40 mg per vial
	Colourless amorphous solid packaged in dark glass crimp cap vials.	Please inquire for customized filling and bulk quantities.
	Purity: > 95 %	
	Certificates:	
	CoA; ¹ H NMR spectrum	
	Chemical Name:	
	CA index name: 2,4(1H,3H)-Pyrimidinedione,	
	1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-β-D-threo-pentofuranosyl]-5-methyl-	
	Synonymes:	
	1-[5-O-(4,4'-Dimethoxytrityl)-2-deoxy-β-D-threo-pentofuranosyl]-thymine; DMTr-lyxothymidine; 2,4(1H,3H)-Pyrimidinedione,	
	1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-β-D-threo-pentofuranosyl]-5-methyl-;	
	1-[5-O-[Bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-D-threo-pentofuranosyl]-5-methyl-2,4(1H,3H)pyrimidinedione;	
	5'-O-(4,4'-Dimethoxytrityl)-3'-hydroxythymidine	
	Literature:	
	Eisenhut M. et al. A new precursor for the radiosynthesis of [¹⁸ F]FLT. Nucl. Med. Biol. 2002, 29, 263-273.	

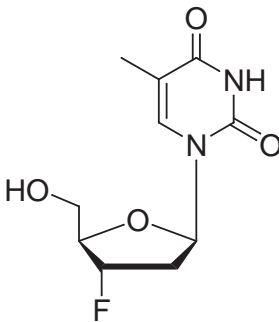


Product Number	Product	Order number / Unit
1190	DMTr-Nosyl-lyxothymidine	1190.0010: 10 mg per vial
	Precursor for [¹⁸F]FLT	1190.0020: 20 mg per vial
	(3'-Deoxy-3'-[¹⁸F]fluorothymidine)	1190.0025: 25 mg per vial
	C ₃₇ H ₃₅ N ₃ O ₁₁ S Molar Mass: 729.75	1190.0030: 30 mg per vial
	[444717-20-8]	1190.0040: 40 mg per vial
	Yellowish amorphous solid packaged in dark glass crimp cap vials.	Please inquire for customized filling and bulk quantities.
	Purity: > 90 %	
	Certificates:	
	CoA; ¹ H NMR spectrum	
	Chemical Name:	
	CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-5-methyl-	
	Synonyms:	
	1-[5-O-(4,4'-Dimethoxytrityl)-3-O-nitrophenylsulfonyl-2-deoxy-β-D-lyxofuranosyl]thymine; 5'-O-Dimethoxytrityl-3'-O-nosyl-thymidine; 1-[5-O-(4,4'-Dimethoxytrityl)-3-O-nitrophenylsulfonyl-2-deoxy-β-D-threo-pentofuranosyl]-thymine; 2,4(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-5-methyl-; Non-Boc-FLT	
	Literature:	
	Oh S.J. et al. High radiochemical yield synthesis of 3'-deoxy-3'-[¹⁸ F]Fluorothymidine using (5'-O-dimethoxytrityl-2'-deoxy-3'-O-nosyl-β-D-threo-pentofuranosyl)thymine and its 3-N-BOC-protected analogue as a labeling precursor. Nucl. Med. Biol. 2003, 30, 151-157.	
	Eisenhut M. et al. A new precursor for the radiosynthesis of [¹⁸ F]FLT. Nucl. Med. Biol. 2002, 29, 263-273.	

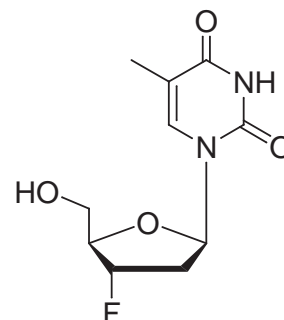


Product Number	Product	Order number / Unit
1200	<p>Dimethoxybenzyl-FLT precursor Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) C₄₆H₄₅N₃O₁₃S Molar Mass: 879.93 [290371-75-4] Yellowish to yellow solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2,4-(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxy-phenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-3-[(2,4-dimethoxyphenyl)methyl]-5-methyl-</p> <p>Synonyms: 3-N-(2,4-Dimethoxybenzyl)-1-[5-O-(4,4'-dimethoxytrityl)-3-O-nitrophenylsulfonyl-2-deoxy-β-D-lyxofuranosyl]thymidine; N-(2,4-Dimethoxybenzyl)-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine; 2,4-(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxy-phenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-3-[(2,4-dimethoxyphenyl)methyl]-5-methyl-</p> <p>Literature: Shields A.F. et al. Imaging proliferation in vivo with [¹⁸F]FLT and positron emission tomography. <i>Nature Medicine</i> 1998, 4, 1334-1336. Grierson J.R. et al. Developments in the radiosynthesis of [¹⁸F]FLT. <i>J. Nucl. Med.</i> 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario, Canada; 22 P. No. 76. Grierson J.R. et al. An improved radiosynthesis of [¹⁸F]FLT. <i>J. Labelled Compd. Radiopharm.</i> 1999, 42, Suppl. 1, S525. Grierson J.R. et al. Radiosynthesis of 3'-deoxy-3'-[¹⁸F]fluoro-thymidine: [¹⁸F]FLT for imaging of cellular proliferation in vivo. <i>Nucl. Med. Biol.</i> 2000, 27, 143-156.</p>	<p>1200.0010: 10 mg per vial 1200.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

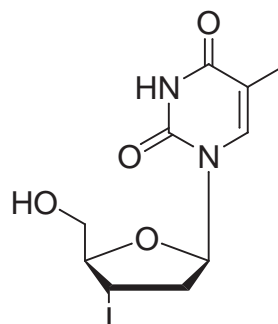
Product Number	Product	Order number / Unit
1210	<p>Anhydrothymidine-FLT precursor Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) $C_{31}H_{30}N_2O_6$ Molar Mass: 526.58 [191474-13-2] Colourless to yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[4,4'-dimethoxytrityl]-2,3-dihydro-8-methyl-, (2R,3R,5R)- Synonyms: 5'-O-(4,4'-dimethoxytrityl)-2,3'-anhydrothymidine; 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[4,4'-dimethoxytrityl]-2,3-dihydro-8-methyl-, (2R,3R,5R)-; (2R,3R,5R)-3-[[Bis(4-methoxyphenyl)phenylmethoxy]methyl]-2,3-dihydro-8-methyl- 2,5-methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one Literature: Machulla H.J. et al. Simplified labelling approach for synthesizing 3'-deoxy-3'-[¹⁸F]fluorothymidine ([¹⁸F]FLT). J. Radioanal. Nucl. Chem. 2000, 243, 843-846. Eisenhut M. et al. Synthesis of 3'-deoxy-3'-[¹⁸F]fluorothymidine with 2,3'-anhydro-5'-O-(4,4'-dimethoxytrityl)-thymidine. J. Labelled Compd. Radiopharm. 2000, 43, 1211-1218.</p>	<p>1210.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

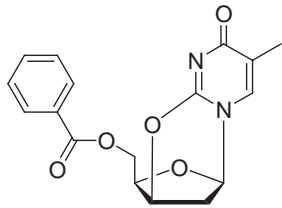
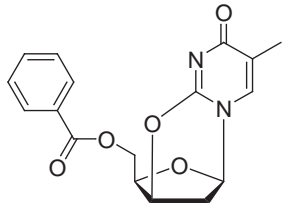
Product Number	Product	Order number / Unit
1219	<p>FLT Ultra Pure Reference standard for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) $C_{10}H_9FN_2O_4$ Molar Mass: 244.22 [25526-93-6] Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 99 % Certificates: CoA; ¹H and ¹⁹F NMR spectra; HPLC Chemical Name: CA index name: Thymidine, 3'-deoxy-3'-fluoro- Synonyms: 1-(3'-Deoxy-3'-fluoro-β-D-pentofuranosyl)thymine; 3'-Deoxy-3'-fluorothymidine; 3'-Fluorodeoxythymidine; 3'-Fluorothymidine; Alovudine; CL 184824; 3'-Fluoro-3'-deoxythymidine Literature: Eisenhut M. et al. Synthesis of 3'-deoxy-3'-[¹⁸F]fluorothymidine with 2,3'-anhydro-5'-O-(4,4'-dimethoxytrityl)-thymidine. J. Labelled Compd. Radiopharm. 2000, 43, 1211-1218. Machulla H.J. et al. Simplified labelling approach for synthesizing 3'-deoxy-3'-[¹⁸F]fluorothymidine ([¹⁸F]FLT). J. Radioanal. Nucl. Chem. 2000, 243, 843-846.</p>	<p>1219.0005: 5 mg per vial 1219.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1220	3'-Fluoro-thymidine (FLT) Reference standard for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) $C_{10}H_{13}FN_2O_4$ Molar Mass: 244.22 [25526-93-6] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Thymidine, 3'-deoxy-3'-fluoro- Synonyms: 1-(3'-Deoxy-3'-fluoro-β-D-pentofuranosyl)thymine; 3'-Deoxy-3'-fluorothymidine; 3'-Fluorodeoxythymidine; 3'-Fluorothymidine; Alovudine; CL 184824; 3'-Fluoro-3'-deoxythymidine Literature: Eisenhut M. et al. Synthesis of 3'-deoxy-3'-[¹⁸ F]fluorothymidine with 2,3'-anhydro-5'-O-(4,4'-dimethoxytrityl)-thymidine. J. Labelled Compd. Radiopharm. 2000, 43, 1211-1218.	1220.0010: 10 mg per vial 1220.0020: 20 mg per vial 1220.0050: 50 mg per vial 1220.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

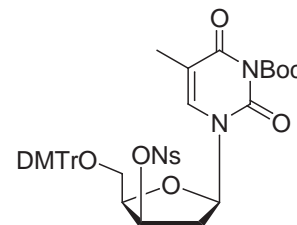


Product Number	Product	Order number / Unit
1222	3'-Iodo-thymidine $C_{10}H_{13}IN_2O_4$ Molar Mass: 352.13 [14260-82-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Thymidine, 3'-deoxy-3'-iodo Synonyms: 3'-Deoxy-3'-iodothymidine; 3'-Iodothymidine Literature: Verheyden J.P.H. et al. Halo Sugar Nucleosides. II. Iodination of Secondary Hydroxyl Groups of Nucleosides with Methyltriphenoxyphosphonium Iodide J. Org. Chem. 1970, 35, 2868-2877. Herdewijn P. et al. 3'-Substituted 2',3'-dideoxynucleoside analogues as potential anti-HIV (HTLV-III/LAV) agents. J. Med. Chem. 1987, 30, 1270-1278. Chu C.K. et al. Structure-activity relationships of pyrimidine nucleosides as antiviral agents for human immunodeficiency virus type 1 in peripheral blood mononuclear cells. J. Med. Chem. 1989, 32, 612-17	1222.0010: 10 mg per vial 1222.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.

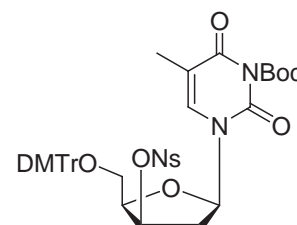


Product Number	Product	Order number / Unit
1230	<p>5'-O-Benzoyl-2,3'-anhydrothymidine Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) C₁₇H₁₆N₂O₅ Molar Mass: 328.32 [70838-44-7] White solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-, (2R,3R,5R)- Synonyms: 5'-O-Benzoyl-2,3'-anhydrothymidine; 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-, (2R,3R,5R)-; (2R,3R,5R)-3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-2,5-methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one; BATH</p> <p>Literature: Machulla H.J. et al. Procedure for Routine Synthesis of [¹⁸F]FLT in High Activities. J. Nucl. Med. 2001, 42, 257P.</p>	<p>1230.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1231	<p>5'-O-Benzoyl-2,3'-anhydrothymidine (GMP) Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) C₁₇H₁₆N₂O₅ Molar Mass: 328.32 [70838-44-7] White solid packaged in dark glass crimp cap vials. Purity: > 99 % Certificates: CoA with NMR and IR spectra (identity); HPLC (purity); GC (residual solvents) Chemical Name: CA index name: 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-, (2R,3R,5R)- Synonyms: 5'-O-Benzoyl-2,3'-anhydrothymidine; 2,5-Methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one, 3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-, (2R,3R,5R)-; (2R,3R,5R)-3-[(benzoyloxy)methyl]-2,3-dihydro-8-methyl-2,5-methano-5H,9H-pyrimido[2,1-b][1,5,3]dioxazepin-9-one; BATH</p> <p>Literature: Same as product number 1230.</p>	<p>1231.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

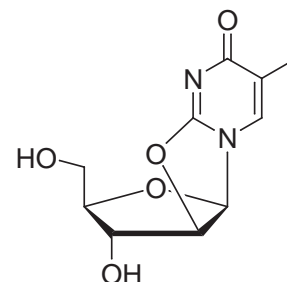
Product Number	Product	Order number / Unit
1240	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) Sold under license for patent EP1355915 C ₄₂ H ₄₃ N ₃ O ₁₃ S Molar Mass: 829.87 [444717-23-1] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)-β-D-threo-pentofuranosyl]-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester Synonyms: 3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine; 3-N-Boc-1-[5-O-(4,4'-dimethoxytrityl)-3-O-nitrophenylsulfonyl-2-deoxy-β-D-lyxofuranosyl]thymidine; 1-(2'-Deoxy-3'-O-(4-nitrobenzenesulfonyl)-5'-O-(4,4'-dimethoxytrityl)-β-D-threo-pentafuranosyl)-3-(tert-butyloxycarbonyl)thymine; Boc-FLT-Precursor; Boc-FLT Literature: Mosdzianowski C. et al. Automated FLT Synthesis Using 3-N-Boc-1-(5-O-4,4'-dimethoxytrityl)-3-O-nosyl-2-deoxy-β-D-lyxofuranosyl)-thymine as Precursor. Eur. J. Nucl. Med. 2001, 28, 1228. Eisenhut M. et al. A new precursor for the radiosynthesis of [¹⁸ F]FLT. Nucl. Med. Biol. 2002, 29, 263-273.	1240.0010: 10 mg per vial 1240.0020: 20 mg per vial 1240.0025: 25 mg per vial 1240.0030: 30 mg per vial 1240.0040: 40 mg per vial Please inquire for customized filling and bulk quantities.



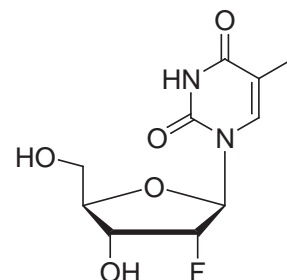
Product Number	Product	Order number / Unit
1241	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP) Precursor for [¹⁸F]FLT (3'-Deoxy-3'-[¹⁸F]fluorothymidine) Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) C ₄₂ H ₄₃ N ₃ O ₁₃ S Molar Mass: 829.87 [444717-23-1] Yellowish solid packaged in clear glass vials. (10 ml headspace) Purity: ≥ 97 % Certificates: CoA with NMR and IR spectra (identity); HPLC (purity); GC (residual solvents); Content Silver (AAS); microbiology test Chemical Name: CA index name: 1(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)-β-D-threo-pentofuranosyl]-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester Synonyms: 3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine; 3-N-Boc-1-[5-O-(4,4'-dimethoxytrityl)-3-O-nitrophenylsulfonyl-2-deoxy-β-D-lyxofuranosyl]thymidine; 1-(2'-Deoxy-3'-O-(4-nitrobenzenesulfonyl)-5'-O-(4,4'-dimethoxytrityl)-β-D-threo-pentafuranosyl)-3-(tert-butyloxycarbonyl)thymine; Boc-FLT-Precursor; Boc-FLT Literature: Same as product number 1240.	1241.0025: 25 mg per vial 1241.0040: 40 mg per vial Please inquire for customized filling and bulk quantities.

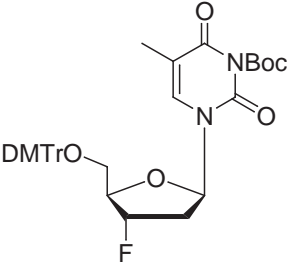


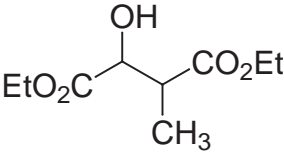
Product Number	Product	Order number / Unit
1250	2,2'-Anhydrothymidine Precursor for 2'-[¹⁸F]Fluoro-thymidine $C_{10}H_{12}N_2O_5$ Molar Mass: 240.21 [22423-26-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-7-methyl-, (2R,3R,3aS, 9aR)- Synonyms: 2,2'-Anhydro-(1-β-D-arabinofuranosyl)-5-methyluracil; 2,2'-Anhydro-5-methyluridine; 2,2'-Anhydro-5-methyluridine Literature: Abrams D.N. et al. The Synthesis of Radiolabelled 1-(2'-Fluoro-2'-deoxy-beta-D-ribofuranosyl)uracil and 1-(2'-Chloro-2'-deoxy-beta-D-ribofuranosyl)uracil. Int. J. Appl. Radiat. Isot. 1985, 36, 233-238. Cordington J.F. et al. Nucleosides. XVIII. Synthesis of 2'-Fluorothymidine, 2'-Fluorodeoxyuridine, and Other 2'-Halogeno-2'-Deoxy Nucleosides. J. Org. Chem. 1964, 29, 558-564.	1250.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

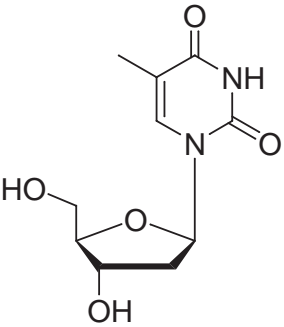


Product Number	Product	Order number / Unit
1260	2'-Fluoro-thymidine Reference standard for 2'-[¹⁸F]Fluoro-thymidine $C_{10}H_{13}FN_2O_5$ Molar Mass: 260.22 [122799-38-6] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Uridine, 2'-deoxy-2'-fluoro-5-methyl- Synonyms: 2'-Deoxy-2'-fluorothymidine; 1-(2'-Deoxy-2'-fluoro-β-D-ribofuranosyl)-5-methyluracil; 2,4(1H,3H)-Pyrimidinenone, 1(2-deoxy-2-fluoro-β-D-ribofuranosyl)-5-methyl; 2'-Deoxy-2'-fluoro-5-methyluridine; 5-Methyl-2'-fluoro-D-uridine; 5-Methyl-2'-fluorouracil; 2'-Fluoro-2'-deoxythymidine Literature: Abrams D.N. et al. The Synthesis of Radiolabelled 1-(2'-Fluoro-2'-deoxy-beta-D-ribofuranosyl)uracil and 1-(2'-Chloro-2'-deoxy-beta-D-ribofuranosyl)uracil. Int. J. Appl. Radiat. Isot. 1985, 36, 233-238. Cordington J.F. et al. Nucleosides. XVIII. Synthesis of 2'-Fluorothymidine, 2'-Fluorodeoxyuridine, and Other 2'-Halogeno-2'-Deoxy Nucleosides. J. Org. Chem. 1964, 29, 558-564.	1260.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

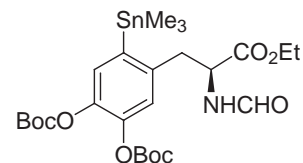


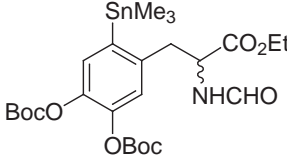
Product Number	Product	Order number / Unit
1261	<p>3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine Reference standard for byproduct of [¹⁸F]FLT synthesis</p> <p>C₃₆H₃₉FN₂O₈ Molar Mass: 646.7 [138685-99-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-[2-deoxy-3-O-[(2,2-dimethyl-1-oxopropoxy)methyl]-2-fluoro-5-O-[(4-methoxyphenyl)diphenylmethyl]-β-D-arabinofuranosyl]-5-methyl-</p> <p>Synonymes: 3-N-Boc-1-[5-O-(4,4'-dimethoxytrityl)-3-fluoro-2-deoxy-β-D-lyxofuranosyl]thymidine; 1-(2'-Deoxy-3'-fluoro-5'-O-(4,4'-dimethoxytrityl)-β-D-threo-pentafuranosyl)-3-(tert-butyloxycarbonyl)thymine; 1(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-fluoro-5-O-(triphenylmethyl)-β-D-threo-pentofuranosyl]-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester; protected FLT; Boc-protected FLT, Boc-protected Fluorothymidine</p> <p>Literature: Mosdzianowski C. et al. Automated FLT Synthesis Using 3-N-Boc-1-(5-O-4,4'-dimethoxytrityl)-3-O-nosyl-2-deoxy-β-D-lyxofuranosyl)-thymine as Precursor. Eur. J. Nucl. Med. 2001, 28, 1228. Eisenhut M. et al. A new precursor for the radiosynthesis of [¹⁸F]FLT. Nucl. Med. Biol. 2002, 29, 263-273.</p>	<p>1261.0005: 5 mg per vial 1261.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

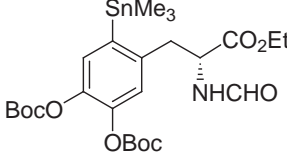
Product Number	Product	Order number / Unit
1280	<p>DEMM Precursor for 2-[¹¹C]Thymidine</p> <p>C₉H₁₆O₅ Molar Mass: 204.22 [93504-92-8] Colourless oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra; GC Chemical Name: CA index name: Butanedioic acid, 2-hydroxy-3-methyl-, diethyl ester Synonyms: Diethyl-3-methylmalate; Malic acid, 3-methyl-, diethyl ester Literature: Steel C. et al. An automated radiosynthesis of 2-[¹¹C]thymidine using anhydrous [¹¹C]urea derived from [¹¹C]phosgene. Appl. Radiat. Isotop. 1999, 51, 377-88. Vander Brought T. et al. Production of 2-[¹¹C]thymidine for quantification of cellular proliferation with PET. Appl. Radiat. Isotop. 1991, 42, 103-4.</p>	<p>1280.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1290	<p>Thymidine Reference standard for 2-[¹¹C]Thymidine</p> <p>C₁₀H₁₄N₂O₅ Molar Mass: 242.23 [50-89-5] Colourless solid packaged in dark glass screw cap vials. Purity: > 99 % Certificates: CoA; ¹H and ¹³C NMR spectra; HPLC Chemical Name: CA index name: Thymidine Synonyms: β-D-Ribofuranoside, thymine-1,2-deoxy-; 5-Methyl-2'-deoxyuridine; 2'-Deoxythymidine; Uridine, 2'-deoxy-5-methyl-; Thymine 2-desoxyriboside; 1-(2-Deoxy-β-D-erythro-pentofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione; 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-β-D-erythro-pentofuranosyl)-5-methyl- Literature: Steel C. et al. An automated radiosynthesis of 2-[¹¹C]thymidine using anhydrous [¹¹C]urea derived from [¹¹C]phosgene. Appl. Radiat. Isotop. 1999, 51, 377-88. Vander Brought T. et al. Production of 2-[¹¹C]thymidine for quantification of cellular proliferation with PET. Appl. Radiat. Isotop. 1991, 42, 103-4.</p>	<p>1290.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

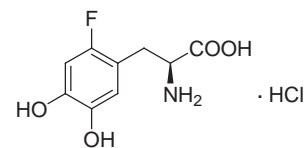
Product Number	Product	Order number / Unit
1300	6-Trimethylstannyl-L-DOPA	1300.0040: 40 mg per vial
	Stannylated precursor for 6-¹⁸FFluoro-L-DOPA	1300.0045: 45 mg per vial
		1300.0060: 60 mg per vial
		1300.0090: 90 mg per vial
		1300.0120: 120 mg per vial
		1300.0150: 150 mg per vial
		Please inquire for customized filling and bulk quantities.
	Sold under license for US patent No. 5,393,908	
	C ₂₅ H ₃₉ NO ₉ Sn Molar Mass: 616.28	
	[143993-90-2]	
	Colourless solid packaged in dark glass crimp cap vials.	
	Purity: > 95 %	
	Certificates:	
	CoA; ¹ H and ¹¹⁹ Sn NMR spectra; HPLC	
	Chemical Name:	
	CA index name: L-Tyrosine, 5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-formyl-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate	
	Synonyms:	
	N-Formyl-3,4-di-tert-butoxycarbonyloxy-6-(trimethylstannyl)-L-phenylalanine ethyl ester; FDOPA-Precursor	
	Literature:	
	Namavari M. et al. Synthesis of 6- ¹⁸ F and 4- ¹⁸ FFluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536.	
	Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸ F]F ₂ and [¹⁸ F]CH ₃ COOF: a High Yield Synthesis of 6 ¹⁸ FFluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996.	



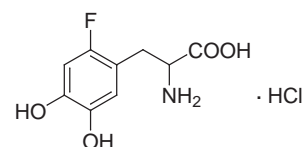
Product Number	Product	Order number / Unit
1302	<p>6-Trimethylstannyl-D,L-DOPA Precursor for 6-[¹⁸F]Fluoro-D,L-DOPA (Analytical standard for validation of 6-[¹⁸F]Fluoro-L-DOPA synthesis)</p> <p>C₂₅H₃₉NO₉Sn Molar Mass: 616.28 CAS-RN not yet assigned Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra; HPLC Chemical Name: D,L-Tyrosine, 5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-formyl-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate</p> <p>Synonyms: N-Formyl-3,4-di-tert-butoxycarbonyloxy-6-(trimethylstannyl)-D,L-phenylalanine ethyl ester</p> <p>Literature: Namavari M. et al. Synthesis of 6-[¹⁸F] and 4-[¹⁸F]Fluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536. Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸F]F₂ and [¹⁸F]CH₃COOF: a High Yield Synthesis of 6-[¹⁸F]Fluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996.</p>	<p>1302.0010: 10 mg per vial 1302.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

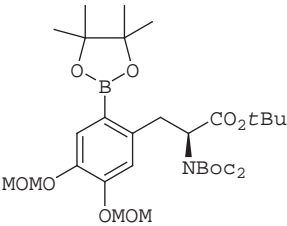
Product Number	Product	Order number / Unit
1303	<p>6-Trimethylstannyl-D-DOPA Precursor for 6-[¹⁸F]Fluoro-D-DOPA (Analytical standard for validation of 6-[¹⁸F]Fluoro-L-DOPA synthesis)</p> <p>C₂₅H₃₉NO₉Sn Molar Mass: 616.28 CAS-RN not yet assigned Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra; HPLC Chemical Name: D-Tyrosine, 5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-formyl-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate</p> <p>Synonyms: N-Formyl-3,4-di-tert-butoxycarbonyloxy-6-(trimethylstannyl)-D-phenylalanine ethyl ester</p> <p>Literature: Namavari M. et al. Synthesis of 6-[¹⁸F] and 4-[¹⁸F]Fluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536. Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸F]F₂ and [¹⁸F]CH₃COOF: a High Yield Synthesis of 6-[¹⁸F]Fluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996.</p>	<p>1303.0010: 10 mg per vial 1303.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

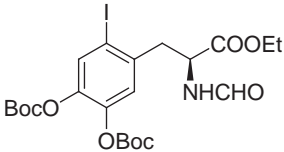
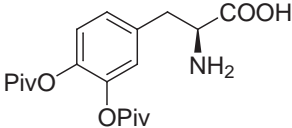
Product Number	Product	Order number / Unit
1310	6-Fluoro-L-DOPA hydrochloride Reference standard for 6-[¹⁸F]Fluoro-L-DOPA $C_9H_{10}FNO_4 \cdot HCl$ Molar Mass: 251.64 [144334-59-8] Nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra; HPLC Chemical Name: CA index name: L-Tyrosine, 2-fluoro-5-hydroxy-, hydrochloride Synonyms: 2-Fluoro-5-hydroxyl-L-tyrosine hydrochloride; 6-Fluoro-L-DOPA hydrochloride; 6-Fluoro-DOPA-hydrochloride; F-L-DOPA · HCl; FDOPA Literature: Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸ F]CH ₃ COOF: a High Yield Synthesis of 6-[¹⁸ F]Fluoro-L-dopa. Appl. Radiat. Isot., Int. J. Radiat. Appl. Instrum. Part A 1992, 43, 989-996. Iwata R. et al. Regioselective Synthesis of 6-[¹⁸ F]-Fluoro-L-dopa via Radiofluorodestannylation. CYRIC Annual Report, 1997, 99-102. Dolle F. et al. 6-[¹⁸ F]Fluoro L DOPA by Radiofluorodestannylation: A Short and Simple Synthesis of a New Labelling Precursor. J. Labelled Compd. Radiopharm. 1998, 41, 105-114.	1310.0005: 5 mg per vial 1310.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



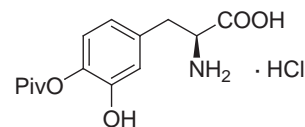
Product Number	Product	Order number / Unit
1311	6-Fluoro-D,L-DOPA hydrochloride Reference standard for 6-[¹⁸F]Fluoro-D,L-DOPA $C_9H_{10}FNO_4 \cdot HCl$ Molar Mass: 251.64 [102034-49-1] (free base) Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra; HPLC Chemical Name: Tyrosine, 2-fluoro-5-hydroxy, hydrochloride Synonyms: 2-Amino-3-(2-fluoro-4,5-dihydroxyphenyl)propanoic acid hydrochloride; 6-Fluoro-D,L-DOPA hydrochloride; F-D,L-DOPA · HCl Literature: Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸ F]CH ₃ COOF: a High Yield Synthesis of 6-[¹⁸ F]Fluoro-L-dopa. Appl. Radiat. Isot., Int. J. Radiat. Appl. Instrum. Part A 1992, 43, 989-996. Iwata R. et al. Regioselective Synthesis of 6-[¹⁸ F]-Fluoro-L-dopa via Radiofluorodestannylation. CYRIC Annual Report, 1997, 99-102. Dolle F. et al. 6-[¹⁸ F]Fluoro L DOPA by Radiofluorodestannylation: A Short and Simple Synthesis of a New Labelling Precursor. J. Labelled Compd. Radiopharm. 1998, 41, 105-114.	1311.0005: 5 mg per vial 1311.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



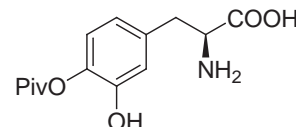
Product Number	Product	Order number / Unit
1312	<p>F-L-DOPA pinacol boronate precursor Nucleophilic Precursor for 6-[¹⁸F]Fluoro-L-DOPA</p> <p>$C_{33}H_{54}BNO_{12}$ Molar Mass: 667.59 CAS-RN not yet assigned Colourless to yellow viscous oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: tert-butyl-(S)-2-(((di-tert-butoxycarbonyl)amino)-3-(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-4,5-dimethoxymethylphenyl)propanoate</p> <p>Synonyms:</p> <p>Literature: Gouverneur V. et al. A General Copper-Mediated Nucleophilic ¹⁸F-Fluorination of Arenes. Angew. Chem. 2014, 126, 7885-7889.</p>	<p>1312.0017: 17 mg per vial Please inquire for customized filling and bulk quantities.</p> 

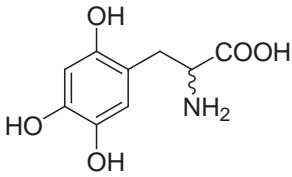
Product Number	Product	Order number / Unit
1320	<p>DiBoc-Iodo-L-DOPA Precursor for 6-[¹²³I]Iodo-L-DOPA</p> <p>C₂₂H₃₀INO₉ Molar Mass: 579.38 [143993-89-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: L-Tyrosine, 5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-formyl-2-iodo-, ethyl ester, 1,1-dimethylethyl carbonate Synonyms: N-Formyl-3,4-di-tert-butoxycarbonyloxy-6-iodo-L-phenylalanine ethyl ester Literature: Kawai K. et al. Synthesis and Evaluation of Radioiodinated 6-Iodo-L-Dopa as a Cerebral L-Amino Acid Transport Marker. Nucl. Med. Biol. 1996, 23, 251-255. Adam M.J. et al. Synthesis and preliminary Evaluation of L-6-[¹²³I]Iodo-Dopa as a Potential spect brain imaging agent.J. Labelled Compd. Radiopharm. 1990, 28, 155-166. Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸F]F₂ and [¹⁸F]CH₃COOF: a High Yield Synthesis of 6[¹⁸F]Fluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996.</p>	<p>1320.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1328	<p>3,4-Di-O-Pivaloyl-L-DOPA Precursor for 6-[¹⁸F]Fluoro-L-DOPA</p> <p>C₁₉H₂₇NO₆ Molar Mass: 365.42 [42567-91-9] Colourless to nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: L-Tyrosine, 3,4-bis-(2,2-dimethylpropanoate) Synonyms: 3,4-di-O-pivaloyl-L-phenylalanine; L-3-(3,4-di-pivaloyloxyphenyl) alanine; 2-Amino-3-[3,4-bis-(2,2-dimethyl-propionyloxy)-phenyl]-propionic acid di-O-pivaloyl-L-dopa; dPdopa; Literature: Bodor N. et al. Improved Delivery through Biological Membranes. 4. Prodrugs of L-Dopa. J. Med. Chem. 1977, 20, 1435-1445. Ihara M. et al. New Potential Prodrug to Improve the Duration of L-Dopa: L-3-(3-Hydroxy-4-pivaloyloxyphenyl)alanine. J. Pharm. Sci. 1989, 78, 525-529. Ishiwata K. et al. Electrophilic Synthesis of 6-[¹⁸F]Fluoro-L-DOPA: Use of 4-O-Pivaloyl-L-DOPA as a Suitable Precursor for Routine Production. Appl. Radiat. Isot. 1993, 44, 755-759.</p>	<p>1328.0015: 15 mg per vial 1328.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.</p> 

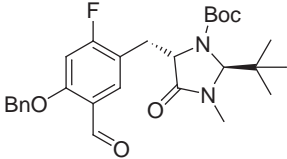
Product Number	Product	Order number / Unit
1329	4-O-Pivaloyl-L-DOPA Hydrochloride Precursor for 6-[¹⁸F]Fluoro-L-DOPA $C_{14}H_{20}ClNO_5$ Molar Mass: 317.77 [122769-71-5] Colourless to nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: L-Tyrosine, 3-hydroxy-4-(2,2-dimethylpropanoate) Synonyms: 3-hydroxy-4-O-pivaloyl-L-phenylalanine hydrochloride; L-3-(3-hydroxy-4-pivaloyloxyphenyl) alanine hydrochloride; 2-Amino-3-[3,4-bis-(2,2-dimethyl-propionyloxy)-phenyl]-propionic acid hydrochloride; pivaloyl-L-dopa hydrochloride; mPDopa HCl Literature: Bodor N. et al. Improved Delivery through Biological Membranes. 4. Prodrugs of L-Dopa. J. Med. Chem. 1977, 20, 1435-1445. Ihara M. et al. New Potential Prodrug to Improve the Duration of L-Dopa: L-3-(3-Hydroxy-4-pivaloyloxyphenyl)alanine. J. Pharm. Sci. 1989, 78, 525-529. Ishiwata K. et al. Electrophilic Synthesis of 6-[¹⁸ F]Fluoro-L-DOPA: Use of 4-O-Pivaloyl-L-DOPA as a Suitable Precursor for Routine Production. Appl. Radiat. Isot. 1993, 44, 755-759.	1329.0015: 15 mg per vial 1329.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.

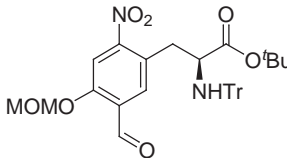


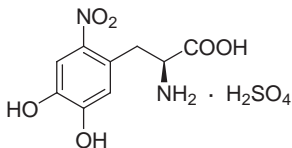
Product Number	Product	Order number / Unit
1330	4-O-Pivaloyl-L-DOPA Precursor for 6-[¹⁸F]Fluoro-L-DOPA $C_{14}H_{19}NO_5$ Molar Mass: 281.3 [122551-95-5] Colourless to nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: L-Tyrosine, 3-hydroxy-, 4-(2,2-dimethylpropanoate) Synonyms: 4-O-Pivaloyl-3-hydroxy-L-phenylalanine; L-3-(3-Hydroxy-4-pivaloyloxyphenyl)alanine; PDOPA; PivDOPA Literature: Bodor N. et al. Improved Delivery through Biological Membranes. 4. Prodrugs of L-Dopa. J. Med. Chem. 1977, 20, 1435-1445. Ihara M. et al. New Potential Prodrug to Improve the Duration of L-Dopa: L-3-(3-Hydroxy-4-pivaloyloxyphenyl)alanine. J. Pharm. Sci. 1989, 78, 525-529. Ishiwata K. et al. Electrophilic Synthesis of 6-[¹⁸ F]Fluoro-L-DOPA: Use of 4-O-Pivaloyl-L-DOPA as a Suitable Precursor for Routine Production. Appl. Radiat. Isot. 1993, 44, 755-759.	1330.0015: 15 mg per vial 1330.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.

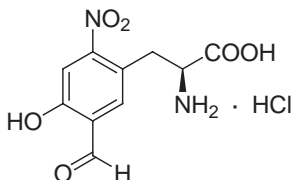


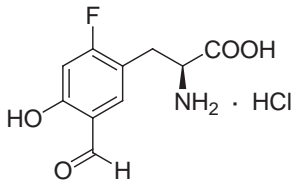
Product Number	Product	Order number / Unit
1332	<p>6-Hydroxy-D,L-DOPA Reference standard for byproduct of 6-[¹⁸F]Fluoro-L-DOPA synthesis</p> <p>C₉H₁₁NO₅ Molar Mass: 213.19 [21373-30-8] Off-white to slightly coloured solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Tyrosine, 2,5-dihydroxy- Synonymes: 2,4,5-Trihydroxy-D,L-phenylalanine, 2,4,5-Trihydroxyphenylalanine, 3,4,6-Trihydroxy-D,L-phenylalanine, 2,5-Dihydroxy-D,L-tyrosine; D,L-TOPA Literature: Pike V.W. et al. Labelled agents for PET studies of the dopaminergic system—some quality assurance methods, experience and issues. Int. J. Rad. Appl. Instrum. [A]. 1990, 41, 483-492.</p>	<p>1332.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

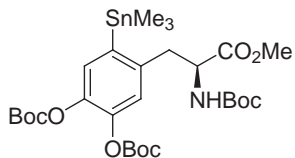
Product Number	Product	Order number / Unit
1335	<p>Nucleophilic F-L-DOPA precursor Nucleophilic precursor for 6-^[18F]Fluoro-L-DOPA</p> <p>C₂₈H₃₅FN₂O₅ Molar Mass: 498.59 [1159940-23-4] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 1-Imidazolidinecarboxylic acid, 2-(1,1-dimethylethyl)-5-[[2-fluoro-5-formyl-4-(phenylmethoxy)phenyl]methyl]-3-methyl-4-oxo-, 1,1-dimethylethyl ester Synonymes: (2S,5S)-tert-butyl-5-(4-benzyloxy-2-fluoro-5-formylbenzyl)-2-tert-butyl-3-methyl-4-oxoimidazolidine-1-carboxylate; nuc F-L-DOPA-Precursor Literature: Coenen H.H. et al. Three-Step, One-Pot Radiosynthesis of 6-Fluoro-3,4-Dihydroxy-L-Phenylalanine by Isotopic Exchange. J. Nucl. Med. 2009, 50, 1724-1729.</p>	<p>1335.0010: 10 mg per vial 1335.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

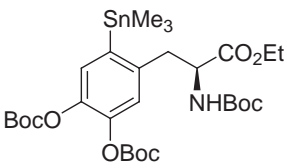
Product Number	Product	Order number / Unit
1336	<p>n.c.a. Nucleophilic F-L-DOPA precursor n.c.a. Nucleophilic Precursor for 6-^[18F]Fluoro-L-DOPA</p> <p>C₃₅H₃₆N₂O₇ Molar Mass: 596.67 CAS-RN not yet assigned Yellowish solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: (S)-3-(5-Formyl-4-methoxymethoxy-2-nitro-phenyl)-2-(trityl-amino)-propionic acid tert-butyl ester Synonymes: ABX128 Literature: no literature reference available</p>	<p>1336.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.</p> 

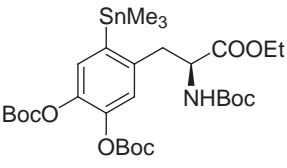
Product Number	Product	Order number / Unit
1337	6-Nitro-L-DOPA hydrogensulfate Reference standard for byproduct of nucleophilic 6-[¹⁸F]fluoro-L-DOPA synthesis $C_9H_{12}N_2O_{10}S$ Molar Mass: 340.27 [1261156-59-5] (free base) Greenish solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: L-Tyrosine, 5-hydroxy, 2-nitro, hydrogensulfate Synonyms: n/a Literature: no literature reference available	Please inquire for customized filling and bulk quantities. 

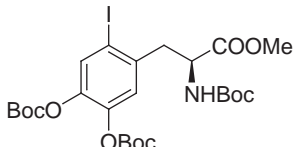
Product Number	Product	Order number / Unit
1338	6-Nitro-Formyl-DOPA HCl Reference standard for byproduct of nucleophilic 6-[¹⁸F]fluoro-L-DOPA synthesis $C_{10}H_{11}ClN_2O_6$ Molar Mass: 290.66 CAS-RN not yet assigned Yellowish solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: L-Tyrosine, 5-formyl, 2-nitro, hydrochloride Synonyms: n/a Literature: no literature reference available	Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1339	<p>6-Fluoro-Formyl-DOPA HCl</p> <p>Reference standard for byproduct of nucleophilic 6-¹⁸F]fluoro-L-DOPA synthesis</p> <p>L-3,4-Dihydroxyphenylalanine no carrier added</p> <p>C₁₀H₁₁ClFNO₄ Molar Mass: 263.65</p> <p>CAS-RN not yet assigned</p> <p>packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: L-Tyrosine, 5-formyl, 2-fluoro, hydrochloride</p> <p>Synonyms: n/a</p> <p>Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

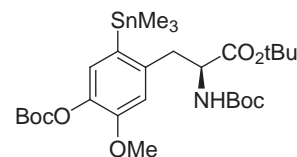
Product Number	Product	Order number / Unit
1340	<p>TriBoc-L-DOPA methyl ester</p> <p>Stannylated precursor for 6-¹⁸F]Fluoro-L-DOPA</p> <p>C₂₈H₄₅NO₁₀Sn Molar Mass: 647.37</p> <p>[857502-21-7]</p> <p>Colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: L-Tyrosine, N-[(1,1-dimethylethoxy)carbonyl]-5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-2-(trimethylstannyl)-, methyl ester, 1,1-dimethylethyl carbonate (ester)</p> <p>Synonyms: N-tert-butoxycarbonyl-3,4-di-tert-butoxycarbonyloxy-6-(trimethylstannyl)-L-phenylalanine methyl ester</p> <p>Literature: Okazaki M. et al. Regioselective Synthesis of 6-¹⁸F]Fluoro-L-dopa via Radiofluorodestannylation. CYRIC Annual Report 1997, 99-102.</p>	<p>1340.0060: 60 mg per vial</p> <p>1340.0090: 90 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1341	<p>TriBoc-D,L-DOPA ethyl ester Analytical standard for validation of 6-[¹⁸F]Fluoro-L-DOPA synthesis</p> <p>C₂₉H₄₇NO₁₀Sn Molar Mass: 688.39 CAS-RN not yet assigned Colourless or nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra Chemical Name: D,L-Tyrosine, 5[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-[(1,1-dimethylethoxy)carbonyl]-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate Synonyms: N-(tert-butoxycarbonyl)-3,4-di(tert-butoxycarbonyloxy)-6-(trimethylstannyl)-D,L-phenylalanine ethyl ester</p> <p>Literature: Dolle F. et al. 6-[¹⁸F]Fluoro-L-DOPA by Radiofluorodestannylation: A Short and Simple Synthesis of a New Labelling Precursor. J. Labelled Compd. Radiopharm. 1998, 41, 105-114.</p>	<p>1341.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

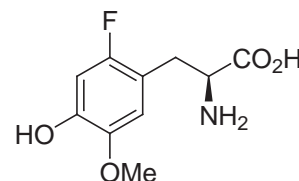
Product Number	Product	Order number / Unit
1342	<p>TriBoc-L-DOPA ethyl ester [¹⁸F]Fluoro-L-DOPA synthesis</p> <p>C₂₉H₄₇NO₁₀Sn Molar Mass: 688.39 [203398-46-3] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: L-Tyrosine, 5[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-[(1,1-dimethylethoxy)carbonyl]-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate Synonyms: N-(tert-butoxycarbonyl)-3,4-di(tert-butoxycarbonyloxy)-6-(trimethylstannyl)-L-phenylalanine ethyl ester</p> <p>Literature: Dolle F. et al. 6-[¹⁸F]Fluoro-L-DOPA by Radiofluorodestannylation: A Short and Simple Synthesis of a New Labelling Precursor. J. Labelled Compd. Radiopharm. 1998, 41, 105-114.</p>	<p>1342.0060: 60 mg per vial 1342.0090: 90 mg per vial Please inquire for customized filling and bulk quantities.</p> 

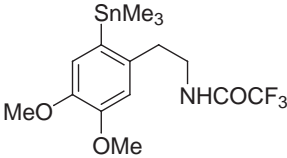
Product Number	Product	Order number / Unit
1350	<p>TriBoc-Iodo-L-DOPA Precursor for 6-[^{123/125}I]Iodo-DOPA</p> <p>C₂₅H₃₆INO₁₀ Molar Mass: 637.46 [853759-55-4] Colourless to yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: L-Tyrosine, 5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-N-[(1,1-dimethylethoxy)carbonyl]-2-iodo-, methyl ester, 1,1-dimethylethyl carbonate</p> <p>Synonymes: N-tert-butoxycarbonyl-3,4-di-tert-butoxycarbonyloxy-6-iodo-L-phenylalanine methyl ester</p> <p>Literature: Okazaki M. et al. Regioselective Synthesis of 6-[¹⁸F]Fluoro-L-dopa via Radiofluorodestannylation. CYRIC Annual Report 1997, 99-102. Kawai K. et al. Synthesis and Evaluation of Radioiodinated 6-Iodo-L-Dopa as a Cerebral L-Amino Acid Transport Marker. Nucl. Med. Biol. 1996, 23, 251-255. Namavari M. et al. Regioselective Radiofluorodestannylation with [¹⁸F]F₂ and [¹⁸F]CH₃COOF: a High Yield Synthesis of 6[¹⁸F]Fluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996. Adam M.J. et al. Synthesis and preliminary Evaluation of L-6-[¹²³I]Iododopa as a Potential spect brain imaging agent. J. Labelled Compd. Radiopharm. 1990, 28, 155-166.</p>	<p>1350.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.</p> 

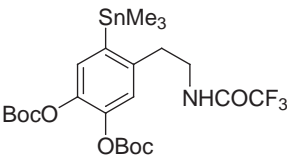
Product Number	Product	Order number / Unit
1363	OMFD precursor ABX004 Precursor for [¹⁸F]OMFD (3-O-Methyl-6-[¹⁸F]fluoro-L-DOPA) Metabolite of 6-Fluoro-L-DOPA $C_{27}H_{45}NO_8Sn$ Molar Mass: 630.36 CAS-RN not yet assigned Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹¹⁹ Sn NMR spectra; HPLC Chemical Name: L-Tyrosine, N-[(1,1-dimethylethoxy)carbonyl]-3-methoxy-2-(trimethylstannyl)-, 1,1-dimethylethyl ester, 1,1-dimethylethyl carbonate (ester) Synonyms: ABX004; N,O-Diboc-3-O-methyl-6-trimethylstannyl-DOPA tert-butyl-ester; DiBoc-OMFD-Precursor Literature: Bergmann et al. 3-O-methyl-6- ¹⁸ F-fluoro-L-dopa, a new tumor imaging agent: investigation of transport mechanism in vitro. J. Nucl. Med. 2004, 45, 2116-2222.	1363.0045: 45 mg per vial 1363.0060: 60 mg per vial Please inquire for customized filling and bulk quantities.

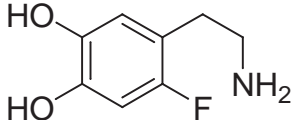


Product Number	Product	Order number / Unit
1369	OMFD Reference standard for [¹⁸F]OMFD (3-O-Methyl-6-[¹⁸F]fluoro-L-DOPA) Metabolite of 6-Fluoro-L-DOPA $C_{10}H_{12}FNO_4$ Molar Mass: 229.21 [114077-01-9] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: L-Tyrosine, 2-fluoro-5-methoxy- Synonyms: O-Methyl-6-fluorodopa; 3-O-Methyl-6-fluoro-L-DOPA Literature: Bergmann et al. 3-O-methyl-6- ¹⁸ F-fluoro-L-dopa, a new tumor imaging agent: investigation of transport mechanism in vitro. J. Nucl. Med. 2004, 45, 2116-2222. Füchtner F. et al. Efficient synthesis of the ¹⁸ F-labelled 3-O-methyl-6-[¹⁸ F]fluoro-L-DOPA. Appl. Radiat. Isot. 2003, 58, 575-578. Adam M.J. et al. Stereoselective synthesis of 3-O-methyl-6-[¹⁸ F]fluorodopa via fluorodestannylation. J. Labelled Compd. Radiopharm. 1994, 34, 565-570.	1369.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

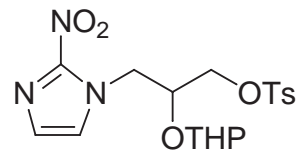


Product Number	Product	Order number / Unit
1370	<p>N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannyl-phenethylamine Precursor for 6-^{[18]F}Fluorodopamine</p> <p>C₁₅H₂₂F₃NO₃Sn Molar Mass: 440.05 [170465-14-2] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: Acetamide, N-[2-[4,5-dimethoxy-2-(trimethylstannyl)phenyl]ethyl]-2,2,2-trifluoro-</p> <p>Synonymes: N-trifluoroacetyl-(3,4-dimethoxy-6-trimethylstannylphenyl)ethylamine</p> <p>Literature: Culbert P.A. et al. Facile Synthesis of N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannylphenethylamine: A Convenient Precursor to 6-^{[18]F}Fluorodopamine. Appl. Radiat. Isot. 1995, 46, 883-885.</p>	<p>1370.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

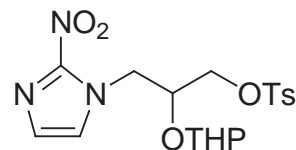
Product Number	Product	Order number / Unit
1371	<p>N-Trifluoroacetyl-3,4-di-tert-butoxycarbonyloxy-6-trimethylstannyl-phenethylamine Precursor for 6-^{[18]F}Fluorodopamine</p> <p>C₂₃H₃₄F₃NO₇Sn Molar Mass: 612.22 [170953-68-1] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: Carbonic acid, 4-[2-[(trifluoroacetyl)amino]ethyl]-5-(trimethylstannyl)-1,2-phenylene bis(1,1-dimethylethyl) ester</p> <p>Synonymes: N-trifluoroacetyl-(3,4-O-di-Boc-6-trimethylstannylphenyl)ethylamine</p> <p>Literature: Namavari M. et al. Synthesis of 6-^{[18]F} and 4-^{[18]F}Fluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536. Namavari M. et al. Regioselective Radiofluorodestannylation with ^{[18]F}F₂ and ^{[18]F}CH₃COOF: a High Yield Synthesis of 6^{[18]F}Fluoro-L-DOPA. Appl. Radiat. Isot. 1992, 43, 989-996.</p>	<p>1371.0010: 10 mg per vial 1371.0060: 60 mg per vial Please inquire for customized filling and bulk quantities.</p> 

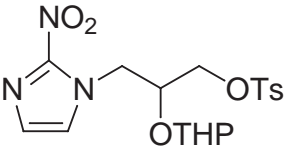
Product Number	Product	Order number / Unit
1380	6-Fluorodopamine Reference standard for 6-[¹⁸F]Fluorodopamine $C_8H_{10}FNO_2$ Molar Mass: 171.17 [71144-39-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 1,2-Benzenediol, 4-(2-aminoethyl)-5-fluoro- Synonymes: 6-Fluorodopamine; 4-(2-Aminoethyl)-5-fluorobenzene-1,2-diol; 4-Fluoro-5-(2-aminoethyl)benzene-1,2-diol Literature: Ding Y.-S. et al. Synthesis of High Specific Activity 6-[¹⁸ F]Fluorodopamine for Positron Emission Tomography Studies of Sympathetic Nervous Tissue. J. Med. Chem. 1991, 34. 861-863.	1380.0005: 5 mg per vial 1380.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

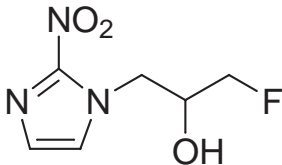
Product Number	Product	Order number / Unit
1400	NITTP Precursor for [¹⁸F]FMISO ([¹⁸F]Fluoromisonidazole) Remark: Product consists of diastereomers of varying proportions without affecting product quality $C_{18}H_{23}N_3O_7S$ Molar Mass: 425.46 [150196-34-2] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 1H-imidazole-1-propanol, 2-nitro-β-[(tetrahydro-2H-pyran-2-yl)oxy]-, 4-methylbenzenesulfonate (ester) Synonyms: 1-(2'-Nitro-1'-imidazolyl)-2-O-tetrahydropyranyl-3-O-toluenesulfonyl-propanediol; 3-(2-Nitroimidazol-1-yl)-2-O-tetrahydropyranyl-1-O-toluenesulfonylpropanediol Literature: Oh S.J. et al. Fully automated synthesis of [¹⁸ F]fluoromisonidazole using a conventional [¹⁸ F]FDG module. Nucl. Med. Biol. 2005, 32, 899-905. Lim J. et al. An efficient radiosynthesis of [¹⁸ F]Fluoromisonidazole. Appl. Radiat. Isot. 1993, 44, 1085-1091. Martin G.V. et al. Noninvasive detection of hypoxic myocardium using (¹⁸ F)Fluoromisonidazole and positron emission tomography. J. Nucl. Med. 1992, 33, 2202-2208. Rasey J.S. et al. Radiolabeled fluoromisonidazole as an imaging agent for tumor hypoxia. Int. J. Radiat. Oncol. Biol. Phys. 1989, 17, 985-991.	1400.0005: 5 mg per vial 1400.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

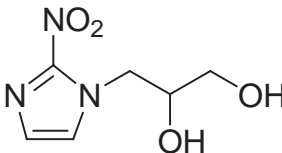


Product Number	Product	Order number / Unit
1401	NITTP (GMP) Precursor for [¹⁸F]FMISO ([¹⁸F]Fluoromisonidazole) Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) $C_{18}H_{23}N_3O_7S$ Molar Mass: 425.46 [150196-34-2] Yellowish solid packaged in dark glass crimp cap vials. Purity: ≥ 97 % Certificates: CoA with NMR and IR spectra (identity); HPLC (purity); GC (residual solvents); microbiology test Chemical Name: CA index name: 1H-imidazole-1-propanol, 2-nitro-β-[(tetrahydro-2H-pyran-2-yl)oxy]-, 4-methylbenzenesulfonate (ester) Synonyms: 1-(2'-Nitro-1'-imidazolyl)-2-O-tetrahydropyranyl-3-O-toluenesulfonyl-propanediol; 3-(2-Nitroimidazol-1-yl)-2-O-tetrahydropyranyl-1-O-toluenesulfonylpropanediol Literature: Same as product number 1400.	1401.0005: 5 mg per vial 1401.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

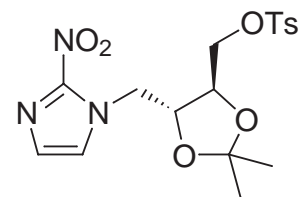


Product Number	Product	Order number / Unit
1402	<p>NITTP (GMP) Precursor for [¹⁸F]FMISO ([¹⁸F]Fluoromisonidazole) Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₁₈H₂₃N₃O₇S Molar Mass: 425.46 [150196-34-2] Yellowish solid packaged in clear glass vials (10 ml headspace) Purity: ≥ 97 %</p> <p>Certificates: CoA with NMR and IR spectra (identity); HPLC (purity); GC (residual solvents); microbiology test</p> <p>Chemical Name: CA index name: 1H-imidazole-1-propanol, 2-nitro-β-[(tetrahydro-2H-pyran-2-yl)oxy]-, 4-methylbenzenesulfonate (ester)</p> <p>Synonymes: 1-(2'-Nitro-1'-imidazolyl)-2-O-tetrahydropyranyl-3-O-toluenesulfonyl-propanediol; 3-(2-Nitroimidazol-1-yl)-2-O-tetrahydropyranyl-1-O-toluenesulfonylpropanediol</p> <p>Literature: Same as product number 1400.</p>	<p>1402.0005: 5 mg per vial 1402.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

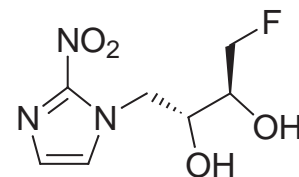
Product Number	Product	Order number / Unit
1410	<p>Fluoromisonidazole</p> <p>Reference standard for [¹⁸F]FMISO ([¹⁸F]Fluoromisonidazole)</p> <p>C₆H₈N₃O₃F Molar Mass: 189.14</p> <p>[13551-89-8]</p> <p>Yellow crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 1H-Imidazole-1-ethanol, α-(fluoromethyl)-2-nitro-</p> <p>Synonyms: 1-Fluoro-3-(2-nitro-imidazol-1-yl)-propan-2-ol; FMISO</p> <p>Literature: Oh S.J. et al. Fully automated synthesis of [¹⁸F]fluoromisonidazole using a conventional [¹⁸F]FDG module. Nucl. Med. Biol. 2005, 32, 899-905.</p> <p>Lim J. et al. An efficient radiosynthesis of [¹⁸F]Fluoromisonidazole. Appl. Radiat. Isot. 1993, 44, 1085-1091.</p> <p>Martin G.V. et al. Noninvasive detection of hypoxic myocardium using (¹⁸F)Fluoromisonidazole and positron emission tomography. J. Nucl. Med. 1992, 33, 2202-2208.</p> <p>Rasey J.S. et al. Radiolabeled fluoromisonidazole as an imaging agent for tumor hypoxia. Int. J. Radiat. Oncol. Biol. Phys. 1989, 17, 985-991.</p>	<p>1410.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

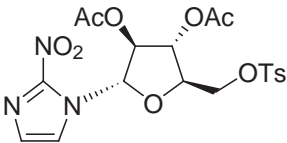
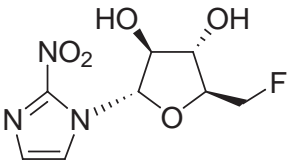
Product Number	Product	Order number / Unit
1420	<p>DesmethyImisonidazole</p> <p>Reference standard for byproduct of [¹⁸F]FMISO synthesis ([¹⁸F]Fluoromisonidazole)</p> <p>C₆H₉N₃O₄ Molar Mass: 187.15</p> <p>[13551-92-3]</p> <p>Yellow solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 1,2-Propanediol, 3-(2-nitro-1H-imidazol-1-yl)-</p> <p>Synonyms: 1,2-Propanediol, 3-(2-nitroimidazol-1-yl)-; 1-(2,3-Dihydroxypropyl)-2-nitro-1H-imidazole; 3-(2-Nitroimidazol-1-yl)-1,2-propanediol; DHPNI; Ro 5-9963; SR 1530</p> <p>Literature: Fong M.T. et al. Synthesis of 1-(2,3-dihydroxypropyl)-2-nitro-1H-imidazole-2-¹⁴C and N-(2-hydroxyethyl)-2-(2-nitro-1H-imidazolyl)-2-¹⁴C acetamide. J. Labelled Compd. Radiopharm. 1986, 23, 981-985.</p> <p>Beaman A.G. et al. Studies in the nitroimidazole series III. 2-nitroimidazole derivatives substituted in the 1-position. Antimicrob. Agents Chemother. 1968, 520-530.</p>	<p>1420.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

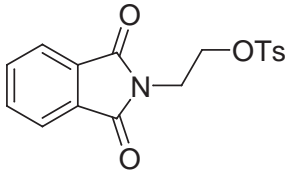
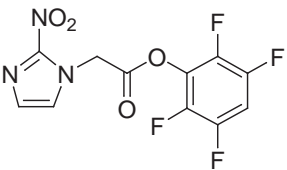
Product Number	Product	Order number / Unit
1430	FETNIM precursor Precursor for [¹⁸F]FETNIM $C_{17}H_{21}N_3O_7S$ Molar Mass: 411.43 [163714-99-6] Colourless to yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1,3-Dioxolane-4-methanol, 2,2-dimethyl-5-[(2-nitro-1H-imidazol-1-yl)methyl]-, 4-methylbenzenesulfonate (ester), (4R-trans)- Synonyms: FETNIM precursor Literature: Yang D.J. et al. Development of F-18-labeled Fluoroerythro-nitroimidazole as a PET agent for imaging Tumor Hypoxia. Radiology 1995, 194, 795-800. Grönroos T. et al. Pharmacokinetics of [¹⁸ F]FETNIM, A Potential Hypoxia Marker for PET. J. Nucl. Med. 2001, 42, 1397-1404. Lethiö K. et al. Imaging perfusion and hypoxia with PET to predict radiotherapy response in head-and-neck cancer. Int. J. Radiat. Oncol. Biol. Phys. 2004, 59, 971-982.	1430.0010: 10 mg per vial 1430.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.

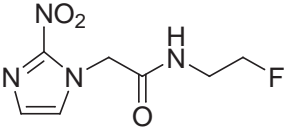


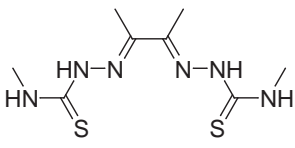
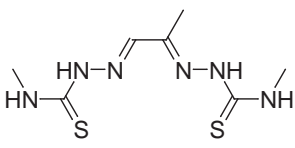
Product Number	Product	Order number / Unit
1440	FETNIM Reference standard for [¹⁸F]FETNIM $C_7H_{10}FN_3O_4$ Molar Mass: 219.17 [204977-05-9](¹⁸ F)FETNIM) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: 2,3-Butanediol, 1-fluoro-4-(2-nitro-1H-imidazol-1-yl)-, [R-(R*,S*)]- Synonyms: Fluoroerythronitroimidazole Literature: Yang D.J. et al. Development of F-18-labeled Fluoroerythro-nitroimidazole as a PET agent for imaging Tumor Hypoxia. Radiology 1995, 194, 795-800. Grönroos T. et al. Pharmacokinetics of [¹⁸ F]FETNIM, A Potential Hypoxia Marker for PET. J. Nucl. Med. 2001, 42, 1397-1404. Lethiö K. et al. Imaging perfusion and hypoxia with PET to predict radiotherapy response in head-and-neck cancer. Int. J. Radiat. Oncol. Biol. Phys. 2004, 59, 971-982.	1440.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

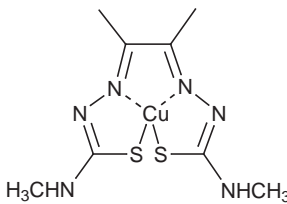


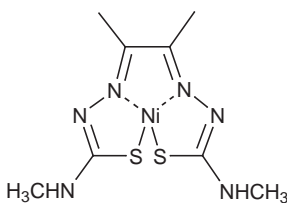
Product Number	Product	Order number / Unit
1450	1-(2,3-Diacetyl-5-tosyl-(α-D-arabinofuranosyl)-2-nitroimidazole Precursor for [18F]FAZA ([18F]Fluoroazomycin Arabinoside) $C_{19}H_{21}N_3O_{10}S$ Molar Mass: 483.45 [494775-35-8] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 1H-Imidazole, 1-[2,3-di-O-acetyl-5-O-[(4-methylphenyl)sulfonyl]- α -D-arabino-furanosyl]-2-nitro- Synonyms: 1-(2,3-Diacetyl-5-tosyl-(α -D-arabinofuranosyl)-2-nitroimidazole; FAZA-Precursor Literature: Piert M. et al. Hypoxia-Specific Tumor Imaging with ^{18}F -Fluoroazomycin Arabinoside. J. Nucl. Med. 2005, 46, 106-113.	1450.0005: 5 mg per vial 1450.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 
1451	1-(5-Deoxy-5-fluoro-α-D-arabinofuranosyl)-2-nitroimidazole Reference standard for [18F]FAZA ([18F]Fluoroazomycin Arabinoside) $C_8H_{10}FN_3O_5$ Molar Mass: 247.18 [220793-03-3] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H and ^{19}F NMR spectra Chemical Name: CA index name: 1H-Imidazole, 1-(5-deoxy-5-fluoro- α -D-arabino-furanosyl)-2-nitro- Synonyms: 1-(5-deoxy-5-fluoro-(α -D-arabinofuranosyl)-2-nitroimidazole; FAZA Literature: Piert M. et al. Hypoxia-Specific Tumor Imaging with ^{18}F -Fluoroazomycin Arabinoside. J. Nucl. Med. 2005, 46, 106-113.	1451.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1452	<p>N-(2-Tosyloxyethyl)phthalimide Tosyl Precursor for [¹⁸F]FETA (FETA-Precursor I) ([¹⁸F]Fluoroetanidazole) $C_{17}H_{15}NO_5S$ Molar Mass: 345.37 [5460-83-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-Isoindole-1,3(2H)-dione, 2-[2-[[[(4-methylphenyl)sulfonyl]oxy]ethyl]- Synonyms: 2-Hydroxyethylphthalimide tosylate; N-(2-Tosyloxyethyl)phthalimide; N-[2-[[[(4-tolyl)sulfonyl]oxy]ethyl]phthalimide; NSC 19429; p-Toluenesulfonic acid 2-(phthalimidyl)ethyl ester Literature: Wilson H. A simplified synthesis of 2,3,5,6-tetrafluorophenyl 2-(2-nitroimidazol-1-yl)acetate. J. Labelled Compd. Radiopharm. 2003, 46, 511-513. Tewson T.J. Synthesis of [¹⁸F]Fluoroetanidazole: A Potential New Tracer for Imaging Hypoxia. Nucl. Med. Biol. 1997, 24, 755-760.</p>	<p>1452.0050: 50 mg per vial 1452.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1453	<p>2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate Tetrafluorophenyl-Precursor for [¹⁸F]FETA (FETA-Precursor II) ([¹⁸F]Fluoroetanidazole) $C_{11}H_5F_4N_3O_4$ Molar Mass: 319.17 [199734-70-8] Tan solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 1H-Imidazole-1-acetic acid, 2-nitro-, 2,3,5,6-tetrafluorophenyl ester Synonyms: 2-Nitro-1H-imidazole-1-acetic acid 2,3,5,6-tetrafluorophenyl ester; 2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate Literature: Wilson H. A simplified synthesis of 2,3,5,6-tetrafluorophenyl 2-(2-nitroimidazol-1-yl)acetate. J. Labelled Compd. Radiopharm. 2003, 46, 511-513. Tewson T.J. Synthesis of [¹⁸F]Fluoroetanidazole: A Potential New Tracer for Imaging Hypoxia. Nucl. Med. Biol. 1997, 24, 755-760.</p>	<p>1453.0050: 50 mg per vial 1453.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

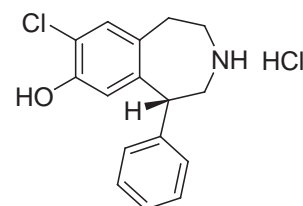
Product Number	Product	Order number / Unit
1454	<p>N-(2-Fluoroethyl)-2-(2-nitroimidazol-1-yl)acetamide Reference standard for [¹⁸F]FETA ([¹⁸F]Fluoroetanidazole) $C_7H_9FN_4O_3$ Molar Mass: 216.17 [199800-19-6] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 1H-Imidazole-1-acetamide, N-(2-fluoroethyl)-2-nitro- Synonyms: Fluoroetanidazole Literature: Wilson H. A simplified synthesis of 2,3,5,6-tetrafluorophenyl 2-(2-nitroimidazol-1-yl)acetate. J. Labelled Compd. Radiopharm. 2003, 46, 511-513. Tewson T.J. Synthesis of [¹⁸F]Fluoroetanidazole: A Potential New Tracer for Imaging Hypoxia. Nucl. Med. Biol. 1997, 24, 755-760.</p>	<p>1454.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1455	<p>ATSM Complexation agent for [⁶⁴Cu]-Labelling</p> <p>C₈H₁₆N₆S₂ Molar Mass: 260.39 [63618-91-7] Colourless to yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Hydrazinecarbothioamide, 2,2'-(1,2-dimethyl-1,2-ethanediylidene)bis[N-methyl-</p> <p>Synonyms: H₂ATSM; Diacetyl bis(N4-methylthiosemicarbazone); 2,3-Butanedione bis(4-methylthiosemicarbazone); ATSM (ligand)</p> <p>Literature: Szajek L.P. et al. Semi-remote production of [⁶⁴Cu]CuCl₂ and preparation of high specific activity [⁶⁴Cu]Cu-ATSM for PET studies. <i>Radiochim. Acta</i> 2005, 93, 239-244. Fujibayashi Y. et al. Copper-62-ATSM: A new Hypoxia Imaging Agent with high Membrane Permeability and Low Redox Potential <i>J. Nucl. Med.</i> 1997, 38, 1150-1160. Green M.A. et al. Copper-62-Labeled Pyruvaldehyde Bis(N4-methylthiosemicarbazone)copper(II): Synthesis and Evaluation as a Positron Emission Tomography Tracer for Cerebral and Myocardial Perfusion <i>J. Nucl. Med.</i> 1990, 31, 1989-1996.</p>	<p>1455.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1456	<p>PTSM Complexation agent for [⁶⁴Cu]-Labelling</p> <p>C₇H₁₄N₆S₂ Molar Mass: 246.36 [673-68-7] Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index names: Hydrazinecarbothioamide, 2,2'-(1-methyl-1,2-ethanediylidene)bis[N-methyl-; Pyruvaldehyde, bis(4-methyl-3-thiosemicarbazone); Semicarbazide, 1,1'-methylethanediylidene)bis[4-methyl-3-thio-</p> <p>Synonyms: Pyruvaldehyde bis(N4-methylthiosemicarbazone); Methylglyoxal bis-4-methylthiosemicarbazone</p> <p>Literature: Green M.A. et al. Copper-62-Labeled Pyruvaldehyde Bis(N4-methylthiosemicarbazone)copper(II): Synthesis and Evaluation as a Positron Emission Tomography Tracer for Cerebral and Myocardial Perfusion <i>J. Nucl. Med.</i> 1990, 31, 1989-1996. Jalilian A. et al. Development of [¹⁰³Pd]-labeled-bis(N4-methylthiosemi-carbazone) complexes as possible therapeutic agents. <i>Radiochim. Acta</i> 2009, 94, 865-869.</p>	<p>1456.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

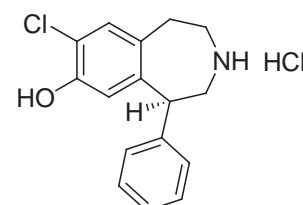
Product Number	Product	Order number / Unit
1457	<p>CuATSM Reference standard for [⁶⁴Cu]CuATSM</p> <p>C₈H₁₄CuN₆S₂ Molar Mass: 321.92 [68341-09-3] Dark brown solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: CA index name: Copper, [[2,2'-(1,2-dimethyl-1,2-ethanediylidene)bis[N-methylhydrazinecarbothioamidato-kappaN2,kappaS]](2-)]-, (SP-4-2)- Synonymes: Copper, [[2,2'-(1,2-dimethyl-1,2-ethanediylidene)bis[N-methylhydrazinecarbothioamidato]](2-)-N2,N2',S,S']-, (SP-4-2)-Hydrazinecarbothioamide, 2,2'-(1,2-dimethyl-1,2-ethanediylidene)bis[N-methyl-, copper complex; Cu-diacetyl-bis(N4-methylthiosemicarbazone) Literature: Holland J.P. et al.Functionalized Bis(thiosemicarbazonato) Complexes of Zinc and Copper: Synthetic Platforms Toward Site-Specific Radiopharmaceuticals. Inorg. Chem. 2007, 46, 465-485.</p>	<p>1457.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

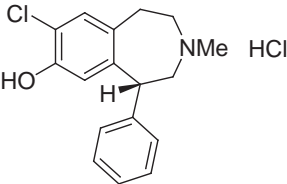
Product Number	Product	Order number / Unit
1459	<p>NiATSM Reference standard for [⁶⁴Ni]NiATSM</p> <p>C₈H₁₄N₆NiS₂ Molar Mass: 317.06 [30193-04-5] Black solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Nickel, [[2,2α-(1,2-dimethyl-1,2-ethanediylidene)bis[N-methylhydrazinecarbothioamidato-κN2,κS]](2-)]-, (SP-4-2)- Synonymes: Nickel, [[2,3-butanedione bis(4-methyl-3-thiosemicarbazonato)](2-)]- Literature: no literature reference available</p>	<p>1459.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

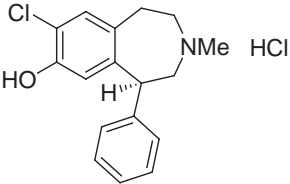
Product Number	Product	Order number / Unit
1460	(R)-SCH-24518 hydrochloride Precursor for [¹¹C]SCH-23390 $C_{16}H_{16}ClNO \cdot HCl$ Molar Mass: 310.22 [128145-75-5] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra; optical rotation Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-5-phenyl-, hydrochloride, (5R)- Synonyms: 8-Chloro-2,3,4,5-tetrahydro-5-phenyl-1H-3-benzazepin-7-ol, hydrochloride, (R); R-(+)-SCH-24518 HCl; nor-Methyl-R-(+)-SCH-23390 hydrochloride; Nor-R-SCH 23390; (R)-normethyl-SCH 23390 hydrochloride Literature: DeJesus O.T. et al. Characterisation of [¹¹ C]SCH 23390 and its possible metabolites in primate blood using high performance liquid chromatography. J. Radioanalytical Nucl. Chem. 1988, 125, 65-73. Ram S. et al. Synthesis of the Labelled D ₁ Receptor Antagonist SCH 23390 Using [¹¹ C]Carbon dioxide. Appl. Radiat. Isot. 1989, 40, 425-427. Halldin C. et al. Preparation of [¹¹ C]-Labelled SCH 23390 for the in vivo Study of Dopamine D-1 Receptors using Positron Emission Tomography. Appl. Radiat. Isot. 1986, 37, 1039-1043. DeJesus O.T. et al. Synthesis of [¹¹ C]SCH 23390 for Dopamine D1 receptor Studies. Appl. Radiat. Isot. 1987, 38, 345-348.	1460.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

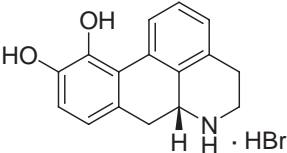


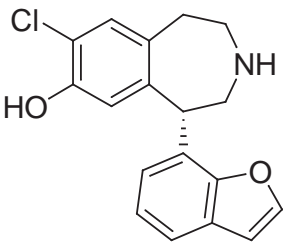
Product Number	Product	Order number / Unit
1462	(S)-SCH-24518 hydrochloride Precursor for [¹¹C]SCH-23388 $C_{16}H_{16}ClNO \cdot HCl$ Molar Mass: 310.22 [1217462-17-3] [135556-21-7] (free base) Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra; optical rotation Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-5-phenyl-, hydrochloride (1:1), (5S)- Synonyms: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-5-phenyl-, hydrochloride, (5S)-; 8-Chloro-2,3,4,5-tetrahydro-5-phenyl-1H-3-benzazepin-7-ol, hydrochloride, (S); S-(-)-SCH-24518 HCl; nor-Methyl-S-(-)-SCH-23388 hydrochloride; Nor-S-SCH 23388; (S)-normethyl-SCH 23388 hydrochloride Literature: DeJesus O.T. et al. Characterisation of [¹¹ C]SCH 23390 and its possible metabolites in primate blood using high performance liquid chromatography. J. Radioanalytical Nucl. Chem. 1988, 125, 65-73. Ram S. et al. Synthesis of the Labelled D ₁ Receptor Antagonist SCH 23390 Using [¹¹ C]Carbon dioxide. Appl. Radiat. Isot. 1989, 40, 425-427. Halldin C. et al. Preparation of [¹¹ C]-Labelled SCH 23390 for the in vivo Study of Dopamine D-1 Receptors using Positron Emission Tomography. Appl. Radiat. Isot. 1986, 37, 1039-1043. DeJesus O.T. et al. Synthesis of [¹¹ C]SCH 23390 for Dopamine D1 receptor Studies. Appl. Radiat. Isot. 1987, 38, 345-348.	1462.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

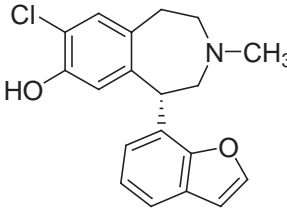


Product Number	Product	Order number / Unit
1464	<p>SCH-23390 hydrochloride Reference standard for [¹¹C]SCH-23390</p> <p>C₁₇H₁₈ClNO · HCl Molar Mass: 324.24 [125941-87-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra; optical rotation Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-, hydrochloride, (5R)-</p> <p>Synonyms: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-, hydrochloride, (5S)-; 8-Chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-1H-3- benzazepin-7-ol, hydrochloride, (S); Sch 23388 hydrochloride; SCH23388 HCl; S-(-)-7-Chloro-8-hydroxy-3-methyl-1-phenyl- 2,3,4,5-tetrahydro-1H-3-benzazepine, hydrochloride</p> <p>Literature: DeJesus O.T. et al. Characterisation of [¹¹C]SCH 23390 and its possible metabolites in primate blood using high performance liquid chromatography. J. Radioanalytical Nucl. Chem. 1988, 125, 65-73. Ram S. et al. Synthesis of the Labelled D₁ Receptor Antagonist SCH 23390 Using [¹¹C]Carbon dioxide. Appl. Radiat. Isot. 1989, 40, 425-427. Halldin C. et al. Preparation of [¹¹C]-Labelled SCH 23390 for the in vivo Study of Dopamine D-1 Receptors using Positron Emission Tomography. Appl. Radiat. Isot. 1986, 37, 1039-1043. DeJesus O.T. et al. Synthesis of [¹¹C]SCH 23390 for Dopamine D1 receptor Studies. Appl. Radiat. Isot. 1987, 38, 345-348.</p>	<p>1464.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

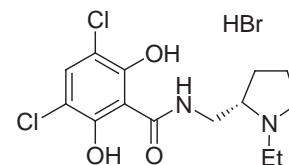
Product Number	Product	Order number / Unit
1466	<p>SCH-23388 hydrochloride Reference standard for [¹¹C]SCH-23388</p> <p>C₁₇H₁₈ClNO · HCl Molar Mass: 324.24 [1217443-99-6] [73445-63-3] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra; optical rotation Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-, hydrochloride (1:1), (5S)- Synonymes: 1H-3-Benzazepin-7-ol, 8-chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-, hydrochloride, (5S)-; 8-Chloro-2,3,4,5-tetrahydro-3-methyl-5-phenyl-1H-3- benzazepin-7-ol, hydrochloride, (S); Sch 23388 hydrochloride; SCH23388 HCl; S-(-)-7-Chloro-8-hydroxy-3-methyl-1-phenyl- 2,3,4,5-tetrahydro-1H-3-benzazepine, hydrochloride</p> <p>Literature: DeJesus O.T. et al. Characterisation of [¹¹C]SCH 23390 and its possible metabolites in primate blood using high performance liquid chromatography. J. Radioanalytical Nucl. Chem. 1988, 125, 65-73. Ram S. et al. Synthesis of the Labelled D₁ Receptor Antagonist SCH 23390 Using [¹¹C]Carbon dioxide. Appl. Radiat. Isot. 1989, 40, 425-427. Halldin C. et al. Preparation of [¹¹C]-Labelled SCH 23390 for the in vivo Study of Dopamine D-1 Receptors using Positron Emission Tomography. Appl. Radiat. Isot. 1986, 37, 1039-1043. DeJesus O.T. et al. Synthesis of [¹¹C]SCH 23390 for Dopamine D1 receptor Studies. Appl. Radiat. Isot. 1987, 38, 345-348.</p>	<p>1466.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1477	<p>(R)-(-)-Norapomorphine hydrobromide Precursor for [¹¹C]-(-)-NPA and [¹¹C]-(-)-NMA ([¹¹C]-(-)-N-Propyl-norapomorphine and [¹¹C]-(-)-N-Methyl-norapomorphine)</p> <p>Photosensitive!</p> <p>C₁₆H₁₅NO₂ · HBr Molar Mass: 334.21</p> <p>[115017-61-3] [478-76-2] (free base)</p> <p>Colourless to yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 4H-Dibenzo[de,g]quinoline-10,11-diol, 5,6,6a,7-tetrahydro-, hydrobromide, (6aR)-</p> <p>Synonymes: 4H-Dibenzo[de,g]quinoline-10,11-diol, 5,6,6a,7-tetrahydro-, hydrobromide, (R)-; R-(-)-Norapomorphine hydrobromide; R-(-)-Norapomorphine · HBr</p> <p>Literature: Hwang D.-R. et al. (-)-N-[¹¹C]propyl-norapomorphine: a positron-labeled dopamine agonist for PET imaging of D₂ receptors. Nucl. Med. Biol. 2000, 27, 533-539.</p> <p>Narendran R. et al. In vivo vulnerability to competition by endogenous dopamine: Comparison of the D₂ receptor agonist radiotracer (-)-N-[¹¹C]propyl-norapomorphine ([¹¹C]NPA) with the D₂ receptor antagonist radiotracer [¹¹C]-raclopride. Synapse 2004, 52, 188-208.</p> <p>Zijlstra S. et al. Synthesis and in vivo distribution in the rat of a dopamine agonist: N-([¹¹C]methyl)norapomorphine. Nucl. Med. Biol. 1993, 20, 7-12.</p>	<p>1477.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

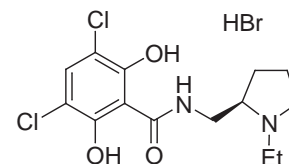
Product Number	Product	Order number / Unit
1480	<p>(+)-Desmethyl-NNC112 Precursor for [¹¹C]NNC112</p> <p>C₁₈H₁₆ClNO₂ Molar Mass: 313.78 [221132-62-3] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 5-(7-benzofuranyl)-8-chloro-2,3,4,5-tetrahydro-, (5S)- Synonyms: (S)-Desmethyl-NNC 112 Literature: Halldin C. et al. Carbon-11-NNC 112 : A Radioligand for PET Examination of Striatal and Neocortical D1-Dopamine Receptors. J. Nucl. Med. 1998, 39, 2061-2068.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

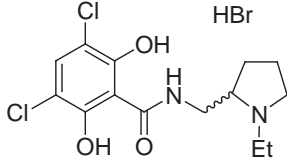
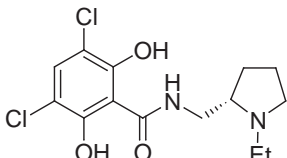
Product Number	Product	Order number / Unit
1490	<p>(+)-NNC112 Reference standard for [¹¹C]NNC112</p> <p>C₁₉H₁₈ClNO₂ Molar Mass: 327.80 [125341-24-4] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-3-Benzazepin-7-ol, 5-(7-benzofuranyl)-8-chloro-2,3,4,5-tetrahydro-3-methyl-, (5S)- Synonyms: 1H-3-Benzazepin-7-ol, 5-(7-benzofuranyl)-8-chloro-2,3,4,5-tetrahydro-3-methyl-, (S)-; (+)-NNC 112; NNC 01-112; NNC 0112; (+)-8-Chloro-5-(7-benzofuranyl)-7-hydroxy-3-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine Literature: Halldin C. et al. Carbon-11-NNC 112 : A Radioligand for PET Examination of Striatal and Neocortical D1-Dopamine Receptors. J. Nucl. Med. 1998, 39, 2061-2068.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

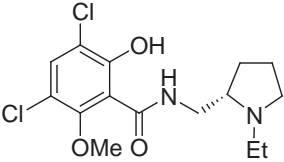
Product Number	Product	Order number / Unit
1500	(S)-O-Desmethylnaclopride hydrobromide Precursor for [¹¹C]Raclopride $C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$ Molar Mass: 414.12 [113310-88-6] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum; HPLC Chemical Name: CA index name: Benzamide hydrobromide, 3,5-dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-, (S)- Synonyms: (S)-3,5-Dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-benzamide hydrobromide Literature: Langer O. et al. Precursor Synthesis and Radiolabelling of the Dopamine D2 Receptor Ligand [¹¹ C]Raclopride from [¹¹ C]methyl triflate. J. Labelled Compd. Radiopharm. 1999, 42, 1183-1193. Hoegberg T. et al. Synthesis of [Methoxy-3H]- and [Methoxy- ¹¹ C]- Labelled Raclopride. Specific Dopamine-D2 Receptor Ligands. J. Labelled Compd. Radiopharm. 1987, 24, 931-940. De Paulis T. et al. Potential Neuroleptic Agents. 4. Chemistry, Behavioral Pharmacology, and Inhibition of [³ H]Spiperone Binding of 3,5-Disubstituted N-[(1-Ethyl-2-pyrrolidinyl)methyl]-6-methoxy-salicylamides. J. Med. Chem. 1986, 29, 61-69.	1500.0001: 1 mg per vial 1500.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

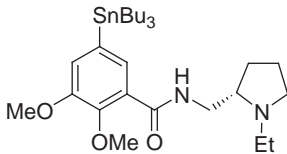


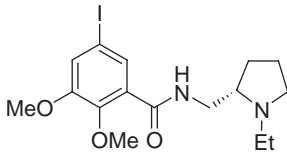
Product Number	Product	Order number / Unit
1501	(R)-O-Desmethylnaclopride hydrobromide Precursor for [¹¹C]Raclopride $C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$ Molar Mass: 414.12 [113310-87-5] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum; HPLC Chemical Name: CA index name: Benzamide hydrobromide, 3,5-dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-, (R)- Synonyms: (R)-3,5-Dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-benzamide hydrobromide Literature: Hoegberg T. et al. Synthesis of [Methoxy-3H]- and [Methoxy- ¹¹ C]- Labelled Raclopride. Specific Dopamine-D2 Receptor Ligands. J. Labelled Compd. Radiopharm. 1987, 24, 931-940. Farde L. et al. Stereoselective binding of ¹¹ C-raclopride in living human brain - a search for extrastriatal central D2-dopamine receptors by PET. Psychopharmacology (Berlin, Germany) 1988, 94, 471-8.	1501.0001: 1 mg per vial 1501.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

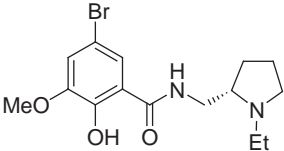
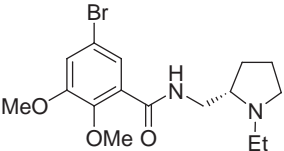


Product Number	Product	Order number / Unit
1502	<p>(R,S)-O-Desmethylnaclopride hydrobromide Precursor for [¹¹C]Raclopride</p> <p>$C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$ Molar Mass: 414.12 [857335-91-2] (free base) Colourless to yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum; HPLC</p> <p>Chemical Name: Benzamide, 3,5-dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-, hydrobromide salt</p> <p>Synonyms: 3,5-Dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy- benzamide hydrobromide</p> <p>Literature: Hoegberg T. et al. Synthesis of [Methoxy-3H]- and [Methoxy-¹¹C]- Labelled Raclopride. Specific Dopamine-D2 Receptor Ligands. J. Labelled Compd. Radiopharm. 1987, 24, 931-940. Farde L. et al. Stereoselective binding of ¹¹C-raclopride in living human brain - a search for extrastriatal central D2-dopamine receptors by PET. Psychopharmacology (Berlin, Germany) 1988, 94, 471-8.</p>	<p>1502.0001: 1 mg per vial 1502.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1510	<p>(S)-O-Desmethylnaclopride Precursor for [¹¹C]Raclopride</p> <p>$C_{14}H_{18}Cl_2N_2O_3$ Molar Mass: 333.21 [119670-11-0] Yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum; HPLC</p> <p>Chemical Name: CA index name: Benzamide, 3,5-dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy-, (S)-</p> <p>Synonyms: (S)-3,5-Dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,6-dihydroxy- benzamide</p> <p>Literature: Langer O. et al. Precursor Synthesis and Radiolabelling of the Dopamine D2 Receptor Ligand [¹¹C]Raclopride from [¹¹C]methyl triflate. J. Labelled Compd. Radiopharm. 1999, 42, 1183-1193. Hoegberg T. et al. Synthesis of [Methoxy-3H]- and [Methoxy-¹¹C]- Labelled Raclopride. Specific Dopamine-D2 Receptor Ligands. J. Labelled Compd. Radiopharm. 1987, 24, 931-940. De Paulis T. et al. Potential Neuroleptic Agents. 4. Chemistry, Behavioral Pharmacology, and Inhibition of [³H]Spiperone Binding of 3,5-Disubstituted N-[(1-Ethyl-2-pyrrolidinyl)methyl]-6-methoxy-salicylamides. J. Med. Chem. 1986, 29, 61-69.</p>	<p>1510.0001: 1 mg per vial 1510.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

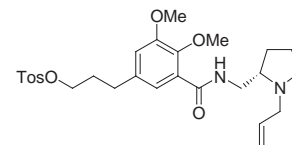
Product Number	Product	Order number / Unit
1520	<p>Raclopride Reference standard for [¹¹C]Raclopride</p> <p>C₁₅H₂₀Cl₂N₂O₃ Molar Mass: 347.24 [84225-95-6] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: Benzamide, 3,5-dichloro-N-[[[(2S)-1-ethyl-2-pyrrolidinyl]methyl]-2-hydroxy-6-methoxy-</p> <p>Synonymes: (2S)-3,5-Dichloro-N-[(1-ethyl-2-pyrrolidinyl)methyl]-6-hydroxy-2-methoxybenzamide; (2S)-3,5-dichloro-N-[(1-ethyl-2-pyrrolidinyl)-methyl]-6-methoxysalicylamide</p> <p>Literature: Langer O. et al. Precursor Synthesis and Radiolabelling of the Dopamine D2 Receptor Ligand [¹¹C]Raclopride from [¹¹C]methyl triflate. J. Labelled Compd. Radiopharm. 1999, 42, 1183-1193. Hoegberg T. et al. Synthesis of [Methoxy-³H]- and [Methoxy-¹¹C]- Labelled Raclopride. Specific Dopamine-D2 Receptor Ligands. J. Labelled Compd. Radiopharm. 1987, 24, 931-940. De Paulis T. et al. Potential Neuroleptic Agents. 4. Chemistry, Behavioral Pharmacology, and Inhibition of [³H]Spiperone Binding of 3,5-Disubstituted N-[(1-Ethyl-2-pyrrolidinyl)methyl]-6-methoxy-salicylamides. J. Med. Chem. 1986, 29, 61-69.</p>	<p>1520.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1521	<p>Tin-epidepride precursor</p> <p>Precursor for [¹²³I]Epidepride and [¹²⁵I]Epidepride (S)-(-)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-[¹²³I]iodo-2,3-dimethoxybenzamide (S)-(-)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-[¹²³I]iodo-2,3-dimethoxybenzamide</p> <p>C₂₈H₅₀N₂O₃Sn Molar Mass: 581.42 [135382-47-7] Coloured oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: Benzamide, N-[[[(2S)-1-ethyl-2-pyrrolidinyl]methyl]-2,3-dimethoxy-5-(tributylstannyl)- Synonymes: N-(1-Ethyl-pyrrolidin-2-ylmethyl)-2,3-dimethoxy-5-tributylstannanyl-benzamide; Benzamide, N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,3-dimethoxy-5-(tributylstannyl)-, (S)- Literature: Clanton J.A. et al. Preparation of [¹²³I]- and [¹²⁵I]epidepride: A dopamine D-2 receptor antagonist radioligand. J. Labelled Compd. Radiopharm. 1991, 29, 745-751.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

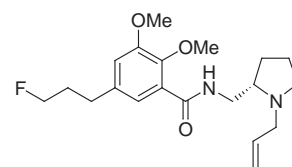
Product Number	Product	Order number / Unit
1522	<p>Epidepride</p> <p>Reference standard for [¹²³I]Epidepride and [¹²⁵I]Epidepride (S)-(-)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-[¹²³I]iodo-2,3-dimethoxybenzamide (S)-(-)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-[¹²³I]iodo-2,3-dimethoxybenzamide</p> <p>C₁₆H₂₃IN₂O₃ Molar Mass: 481.27 [107188-87-4] Coloured oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: Benzamide, N-[[[(2S)-1-ethyl-2-pyrrolidinyl]methyl]-5-iodo-2,3-dimethoxy- Synonymes: (-)-N-[[[(2S)-1-Ethylpyrrolidin-2-yl]methyl]-5-iodo-2,3-dimethoxybenzamide; N-(1-Ethyl-pyrrolidin-2-ylmethyl)-5-iodo-2,3-dimethoxy-benzamide; Benzamide, N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-iodo-2,3-dimethoxy-, (S)- Literature: Clanton J.A. et al. Preparation of [¹²³I]- and [¹²⁵I]epidepride: A dopamine D-2 receptor antagonist radioligand. J. Labelled Compd. Radiopharm. 1991, 29, 745-751.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1530	<p>FLB 604 Precursor for [¹¹C]FLB 457</p> <p>$C_{15}H_{21}BrN_2O_3$ Molar Mass: 357.24 [128600-22-6] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzamide, 5-bromo-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-hydroxy-3-methoxy</p> <p>Synonyms: nor-FLB 457; (-)-(S)-5-Bromo-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-hydroxy-3-methoxybenzamide</p> <p>Literature: Langer O. et al. A General Method for the Synthesis of Raclopride, FLB 457 and Epidepride and Corresponding Desmethyl-Precursors. J. Labelled Compd. Radiopharm. 1999, 42, S366-S368. Abstract of the XIIIth International Symposium on Radiopharmaceutical Chemistry (St. Louis 1999). Hoegberg T. et al. Potential Antipsychotic Agents. 7. Synthesis and Antidopaminergic Properties of the Atypical Highly Potent (S)-5-Bromo-2,3-dimethoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide and Related Compounds - A Comparative Study. J. Med. Chem. 1990, 33, 2305-2309.</p>	<p>1530.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1540	<p>FLB 457 Reference standard for [¹¹C]FLB 457 Selective D2 receptor antagonist</p> <p>$C_{16}H_{23}BrN_2O_3$ Molar Mass: 371.27 [107188-74-9] Yellowish viscous oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzamide, 5-bromo-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2,3-dimethoxy-</p> <p>Synonyms: Benzamide, 5-bromo-2,3-dimethoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]-, (S)-; (-)-(S)-5-Bromo-2,3-dimethoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]-benzamide; Isoremoxipride</p> <p>Literature: Langer O. et al. A General Method for the Synthesis of Raclopride, FLB 457 and Epidepride and Corresponding Desmethyl-Precursors. J. Labelled Compd. Radiopharm. 1999, 42, S366-S368. Abstract of the XIIIth International Symposium on Radiopharmaceutical Chemistry (St. Louis 1999). Hoegberg T. et al. Potential Antipsychotic Agents. 7. Synthesis and Antidopaminergic Properties of the Atypical Highly Potent (S)-5-Bromo-2,3-dimethoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide and Related Compounds - A Comparative Study. J. Med. Chem. 1990, 33, 2305-2309.</p>	<p>1540.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

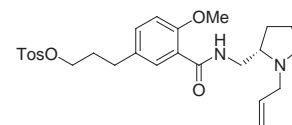
Product Number	Product	Order number / Unit
1550	Tosyl-Fallypride Precursor for [¹⁸F]Fallypride $C_{27}H_{36}N_2O_6S$ Molar Mass: 516.65 [166173-74-6] Colourless to yellowish oil packaged in dark glass crimp cap vials. Purity: > 90 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzamide, 2,3-dimethoxy-5-[3-[[[(4-methylphenyl)sulfonyl]oxy]propyl]-N-[[1-(2-propenyl)-2-pyrrolidinyl]methyl]-, (S)- Synonymes: (S)-2,3-dimethoxy-5-[3-[[[(4-methylphenyl)-sulfonyl]oxy]-propyl]-N-[[1-(2-propenyl)-2-pyrrolidinyl]methyl]-benzamide Literature: Mukherjee J. et al. Preliminary Assessment of Extrastriatal Dopamine D-2 Receptor Binding in the Rodent and Nonhuman Primate Brains Using the High Affinity Radioligand, [¹⁸ F]-Fallypride. Nucl. Med. Biol. 1999, 26, 519-527. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - III. Development of (S)-N-[(1-allyl-2-pyrrolidinyl)methyl]-[3- ¹⁸ F]fluoro-propyl)dimethoxybenzamide as an Improved Dopamine D-2 Receptor Tracer. Nucl. Med. Biol. 1995, 22, 283-296. Mukherjee J. et al. Evaluation of d-Amphetamine Effects on the Binding of Dopamine D-2 Receptor Radioligand, [¹⁸ F]-Fallypride in Nonhuman Primates Using Positron Emission Tomography. Synapse 1997, 27, 1-13.	1550.0002: 2 mg per vial 1550.0003: 3 mg per vial 1550.0004: 4 mg per vial Please inquire for customized filling and bulk quantities.



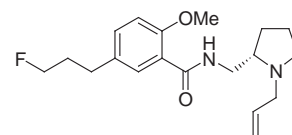
Product Number	Product	Order number / Unit
1560	Fallypride Reference standard for [¹⁸F]Fallypride $C_{20}H_{29}FN_2O_3$ Molar Mass: 364.45 [166173-78-0] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Benzamide, 5-(3-fluoropropyl)-2,3-dimethoxy-N-[[[(2S)-1-(2-propenyl)-2-pyrrolidinyl]methyl]- Synonymes: (S)-5-(3-fluoropropyl)-2,3-dimethoxy-N-[[[(2S)-1-(2-propenyl)-2-pyrrolidinyl]methyl]- Literature: Mukherjee J. et al. Preliminary Assessment of Extrastriatal Dopamine D-2 Receptor Binding in the Rodent and Nonhuman Primate Brains Using the High Affinity Radioligand, [¹⁸ F]-Fallypride. Nucl. Med. Biol. 1999, 26, 519-527. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - III. Development of (S)-N-[(1-allyl-2-pyrrolidinyl)methyl]-[3- ¹⁸ F]fluoro-propyl)dimethoxybenzamide as an Improved Dopamine D-2 Receptor Tracer. Nucl. Med. Biol. 1995, 22, 283-296. Mukherjee J. et al. Evaluation of d-Amphetamine Effects on the Binding of Dopamine D-2 Receptor Radioligand, [¹⁸ F]-Fallypride in Nonhuman Primates Using Positron Emission Tomography. Synapse 1997, 27, 1-13.	1560.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



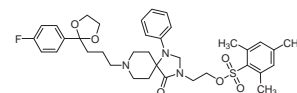
Product Number	Product	Order number / Unit
1570	Tosyl-Desmethoxyfallypride Precursor for [¹⁸F]Desmethoxyfallypride $C_{26}H_{34}N_2O_5S$ Molar Mass: 486.62 [713135-14-9] Colourless to yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzamide, 2-methoxy-5-[3-[[[4-methylphenyl)sulfonyl]oxy]propyl]-N-[[1-(2-propenyl)-2-pyrrolidinyl]methyl]- Synonymes: DMFP-Precursor Literature: Roesch F. et al. Quantification of D2-like dopamine receptors in the human brain with ¹⁸ F-desmethoxyfallypride. J. Nucl. Med. 2003, 44, 109-116. Mukherjee J. et al. ¹⁸ F-Desmethoxyfallypride: a fluorine-18 labeled radiotracer with properties similar to carbon-11 raclopride for PET imaging studies of dopamine D2 receptors. Life Sciences 1996, 59, 669-678. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - III. Development of (S)-N-[(1-allyl-2-pyrrolidinyl)methyl]-[3- ¹⁸ F]fluoro-propyl)dimethoxybenzamide as an Improved Dopamine D-2 Receptor Tracer. Nucl. Med. Biol. 1995, 22, 283-296. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - II. Synthesis and Radiosynthesis of (S)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-(3-[¹⁸ F]fluoropropyl)-3-substituted-2-methoxybenzamides. Appl. Radiat. Isot. 1991, 42, 713-721.	1570.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.



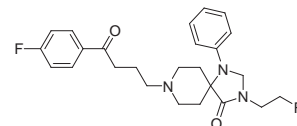
Product Number	Product	Order number / Unit
1580	Desmethoxyfallypride Reference standard for [¹⁸F]Desmethoxyfallypride $C_{19}H_{27}FN_2O_2$ Molar Mass: 334.43 [166173-81-5] Colourless to brownish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Benzamide, 5-(3-fluoropropyl)-2-methoxy-N-[[1-(2-propenyl)-2-pyrrolidinyl]methyl], (S)- Synonymes: DMFP Literature: Roesch F. et al. Quantification of D2-like dopamine receptors in the human brain with ¹⁸ F-desmethoxyfallypride. J. Nucl. Med. 2003, 44, 109-116. Mukherjee J. et al. ¹⁸ F-Desmethoxyfallypride: a fluorine-18 labeled radiotracer with properties similar to carbon-11 raclopride for PET imaging studies of dopamine D2 receptors. Life Sciences 1996, 59, 669-678. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - III. Development of (S)-N-[(1-allyl-2-pyrrolidinyl)methyl]-[3- ¹⁸ F]fluoro-propyl)dimethoxybenzamide as an Improved Dopamine D-2 Receptor Tracer. Nucl. Med. Biol. 1995, 22, 283-296. Mukherjee J. et al. Fluorinated Benzamide Neuroleptics - II. Synthesis and Radiosynthesis of (S)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-(3-[¹⁸ F]fluoropropyl)-3-substituted-2-methoxybenzamides. Appl. Radiat. Isot. 1991, 42, 713-721.	1580.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



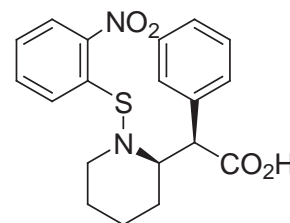
Product Number	Product	Order number / Unit
1590	N-Mesitylenesulfonyloxy-ethyl-spiperone Precursor for 3-(2'-[¹⁸F]Fluorethyl)spiperone <chem>C36H44FN3O6S</chem> Molar Mass: 665.82 [128584-73-6] Colourless to yellowish oil (partially crystallized) packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Benzenesulfonic acid, 2,4,6-trimethyl-, 2-[8-[3-[4-(4-fluorophenyl)-1,3-dioxolan-2-yl]propyl]-4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]decane Synonymes: 8-[4-(4-fluorophenyl)-4,4-(ethylenedioxy)butyl]-3-[2'-(2,4,6-trimethylphenylsulfonyloxyethyl)]-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one Literature: Chi D.Y. et al. Synthesis of no carrier added N-(3-[¹⁸ F]fluoroalkyl)-spiperone derivatives. Appl. Radiat. Isot. 1986, 37, 1173-1180. Hamacher K. et al. Remote controlled one-step production of ¹⁸ F-labeled butyrophenone neuroleptics exemplified by the synthesis of n.c.a. [¹⁸ F]N-methylspiperone. Appl. Radiat. Isot. 1995, 46, 911-916.	1590.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



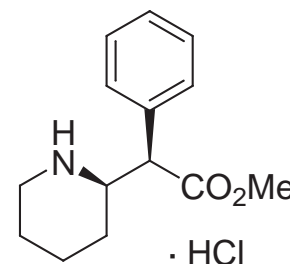
Product Number	Product	Order number / Unit
1591	Fluoroethylspiperone Reference standard for 3-(2'-[¹⁸F]Fluorethyl)spiperone <chem>C25H29F2N3O2</chem> Molar Mass: 441.51 [106114-42-5] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 3-(2-fluoroethyl)-8-[4-(4-fluorophenyl)-4-oxobutyl]-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one Synonymes: FESP Literature: Moerlein S.M. et al. Effect of Lipophilicity on the in Vivo Localization of Radiolabelled spiperone Analogues Int. J. Nucl. Med. Biol. 1985, 12, 353-356. Chi D.Y. et al. Synthesis of no carrier added N-(3-[¹⁸ F]fluoroalkyl)-spiperone derivatives. Appl. Radiat. Isot. 1986, 37, 1173-1180. Coenen H.H. et al. 3-N-(2-[¹⁸ F]Fluorethyl)-spiperone: A novel ligand for cerebral dopamine receptor studies with PET Life Sciences 1987, 40, 81-88. Satyamurthy N. et al. 3-(2'-[¹⁸ F]Fluorethyl)spiperone, a Potent Dopamine Antagonist: Synthesis, Structural Analysis and In-vivo Utilization in Humans Int. J. Rad. Appl. Instrum. A 1990, 41, 113-129. Hamacher K. et al. Remote controlled one-step production of ¹⁸ F-labeled butyrophenone neuroleptics exemplified by the synthesis of n.c.a. [¹⁸ F]N-methylspiperone. Appl. Radiat. Isot. 1995, 46, 911-916.	1591.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

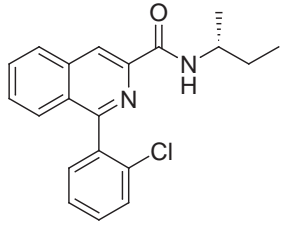


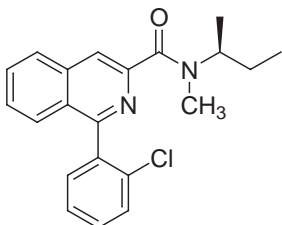
Product Number	Product	Order number / Unit
1592	D-threo-N-NPS-Ritalinic acid Precursor for D-threo-[¹¹C]Methylphenidate $C_{19}H_{20}N_2O_4S$ Molar Mass: 372.44 [159701-28-7] Yellow solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Piperidineacetic acid, 1-[(2-nitrophenyl)thio]- α -phenyl-, [R-(R*,R*)]- Synonyms: N-NPS-Ritalinic acid Literature: Ding Y.-S. et al. Synthesis of the Racemate and Individual Enantiomers of [¹¹ C]Methylphenidate for Studying Presynaptic Dopaminergic Neuro with Positron Emission Tomography. J. Labelled Compd. Radiopharm. 1994, XXIV, 989-997. Studenov A.R. et al. An improved method for the radiosynthesis [¹¹ C]d-threo-methylphenidate. J. Labelled Compd. Radiopharm. 2006, 49, 455-458. Patt M. et al. Synthetic approaches and biodistribution studies of [¹¹ C]methylphenidate. J. Pharm. Pharmaceutical Sci. 2007, 10, 312s-320s.	1592.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.

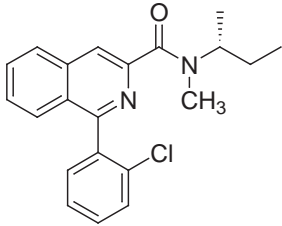


Product Number	Product	Order number / Unit
1593	D-threo-Methylphenidate hydrochloride Reference standard for D-threo-[¹¹C]Methylphenidate Controlled substance, license required in most countries. $C_{14}H_{19}NO_2 \cdot HCl$ Molar Mass: 269.77 [19262-68-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Piperidineacetic acid, α -phenyl-, methyl ester, (α R,2R) Synonyms: 2-Piperidineacetic acid, α -phenyl-, methyl ester, [R-(R*,R*)]; (+)-threo-Methylphenidate; d-threo-Methylphenidate; Dexmethylphenidate; threo-(+)-Methylphenidate Literature: Ding Y.-S. et al. Synthesis of the Racemate and Individual Enantiomers of [¹¹ C]Methylphenidate for Studying Presynaptic Dopaminergic Neuro with Positron Emission Tomography. J. Labelled Compd. Radiopharm. 1994, XXIV, 989-997. Studenov A.R. et al. An improved method for the radiosynthesis [¹¹ C]d-threo-methylphenidate. J. Labelled Compd. Radiopharm. 2006, 49, 455-458. Patt M. et al. Synthetic approaches and biodistribution studies of [¹¹ C]methylphenidate. J. Pharm. Pharmaceutical Sci. 2007, 10, 312s-320s.	1593.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

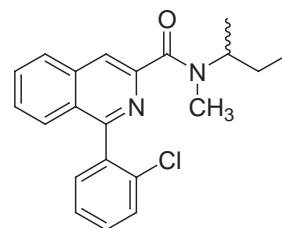


Product Number	Product	Order number / Unit
1600	<p>(R)-N-Desmethyl PK11195 Precursor for (R)-[N-Methyl-¹¹C]-PK11195</p> <p>C₂₀H₁₉ClN₂O Molar Mass: 338.83 [157809-85-3] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 99 % (HPLC) Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-(1-methylpropyl),-(R) Synonyms: 1-(2-Chlorophenyl)-N-(1-methylpropyl)-isoquinoline-3-carboxamide Literature: Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991. Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71. Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581. Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.</p>	<p>1600.0001: 1 mg per vial 1600.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1609	<p>(S)-PK 11195 Reference standard for analytical detection of (S)-[N-Methyl-¹¹C]PK11195.</p> <p>C₂₁H₂₁ClN₂O Molar Mass: 352.86 [205934-45-8] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-methyl-N-[(1S)-1-methylpropyl]- Synonyms: 1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-isoquinoline-3-carboxamide-, (S)- Literature: Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991. Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71. Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581. Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.</p>	<p>1609.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1610	<p>(R)-PK11195 Reference standard for (R)-[N-Methyl-¹¹C]PK11195</p> <p>C₂₁H₂₁ClN₂O Molar Mass: 352.86 [205934-46-9] Colourless to yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-, (R)</p> <p>Synonymes: 1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-isoquinoline-3-carboxamide-(R); PK 11195; RP 52028</p> <p>Literature: Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991. Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71. Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581. Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.</p>	<p>1610.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1611	(R,S)-PK11195 Reference standard for (R,S)-[N-Methyl-¹¹C]PK11195 $C_{21}H_{21}ClN_2O$ Molar Mass: 352.86 [85532-75-8] Yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-, (RS) Synonyms: 1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-isoquinoline-3-carboxamide-(RS); PK11195; RP 52028	1611.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



Literature:

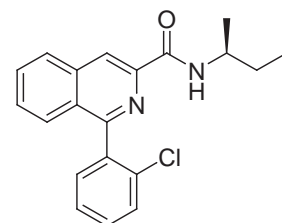
Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991.

Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71.

Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581.

Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.

Product Number	Product	Order number / Unit
1620	(S)-N-Desmethyl PK11195 Precursor for (S)-[N-Methyl-¹¹C]-PK11195 $C_{20}H_{19}ClN_2O$ Molar Mass: 338.83 [157809-86-4] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-(1-methylpropyl)-(S) Synonyms: 1-(2-Chlorophenyl)-N-(1-methylpropyl)-isoquinoline-3-carboxamide-(S)	1620.0001: 1 mg per vial 1620.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.



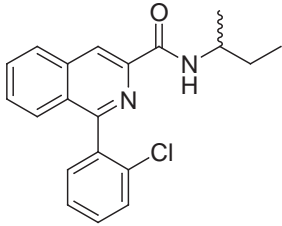
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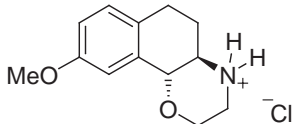
Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991.

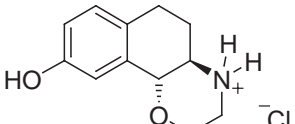
Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71.

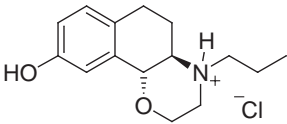
Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581.

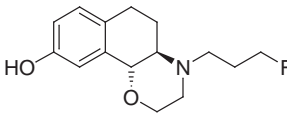
Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.

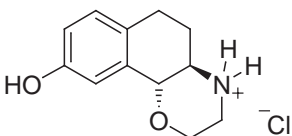
Product Number	Product	Order number / Unit
1640	<p>(R,S)-N-Desmethyl PK11195 Precursor for (R,S)-[N-Methyl-¹¹C]-PK11195</p> <p>C₂₀H₁₉ClN₂O Molar Mass: 338.83 [124236-61-9] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 3-Isoquinolinecarboxamide, 1-(2-chlorophenyl)-N-(1-methylpropyl),-(R,S) Synonyms: 1-(2-Chlorophenyl)-N-(1-methylpropyl)-isoquinoline-3-carboxamide- (R,S)</p> <p>Literature: Camsonne R. et al. Synthesis of N-[¹¹C]methyl, N-(methyl-1-propyl), (chloro-2-phenyl)-1-isoquinoline carboxamide-3 (PK11195): a new ligand for peripheral benzodiazepine receptors. J. Labelled Compd. Radiopharm. 1984, 21, 985-991. Hashimoto K. et al. Synthesis and evaluation of ¹¹C-PK11195 for in vivo study of peripheral-type benzodiazepine receptors using positron emission tomography. Ann. Nucl. Med. 1989, 3, 63-71. Shah F. et al. Synthesis of the Enantiomers of [N-methyl-¹¹C]PK 11195 and Comparison of their Behaviours as Radioligands for PK Binding Sites in Rats. Nucl. Med. Biol. 1994, 21, 573-581. Cremer J.E. et al. The Distribution of Radioactivity in Brains of Rats Given [N-methyl-¹¹C]PK11195 In Vivo After Induction of a Cortical Ischaemic Lesion. Int. J. Rad. Appl. Instrum. B, 1992, 19, 159-166.</p>	<p>1640.0001: 1 mg per vial 1640.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

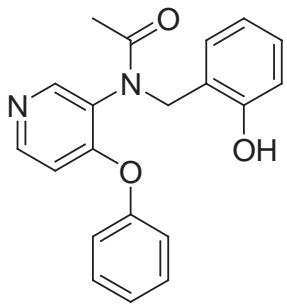
Product Number	Product	Order number / Unit
1642	<p>(+)-9-MeO-HNO hydrochloride Reference standard for [¹¹C]-(+)-PHNO</p> <p>C₁₃H₁₇NO₂ · HCl Molar Mass: 255.74 [99833-85-9] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2H-Naphth[1,2-b]-1,4-oxazine, 3,4,4a,5,6,10b-hexahydro-9-methoxy-, hydrochloride, trans- Synonyms: (+)-9-Methoxy-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazine hydrochloride; (+)-9-MeO-HNO hydrochloride</p> <p>Literature: Wilson A.A. et al. [¹¹C]-(+)-4-Propyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol as a Potential Radiotracer for in Vivo Imaging of the Dopamine D2 High-Affinity State with Positron Emission Tomography. J. Med. Chem. 2005, 48, 4153 Boileau I. et al. Decreased binding of the D3 dopamine receptor-preferring ligand [¹¹C]-(+)-PHNO in drug-naïve Parkinson's disease. Brain, 2009, 132, 1366-1375.</p>	<p>1642.0001: 1 mg per vial 1642.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

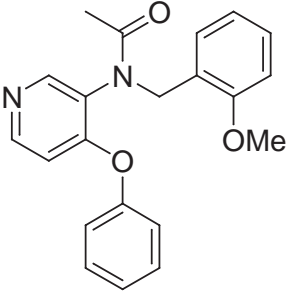
Product Number	Product	Order number / Unit
1643	<p>(+)-HNO hydrochloride Precursor for [¹¹C]-(+)-PHNO Precursor for [¹⁸F]-(+)-F-PHNO</p> <p>C₁₂H₁₅NO₂ · HCl Molar Mass: 241.71 [858517-21-2] Beige solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-, hydrochloride (1:1), (4aR,10bR) Synonyms: (4aR,10bR)- 3,4,4a,5,6,10b-hexahydro-2H-Naphth[1,2-b]-1,4-oxazin-9-ol, hydrochloride; (+)-3,4,4a,5,6,10b-Hexahydro-2H-naphtho[1,2-β][1,4]oxazin-9-ol hydrochloride; (4aR,10bR)-3,4,4a,5,6,10b-Hexahydro-2H- Naphth[1,2-β]-1,4-oxazin-9-ol, hydrochloride; (+)-HNO</p> <p>Literature: Wilson A.A. et al. [¹¹C]-(+)-4-Propyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol as a Potential Radiotracer for in Vivo Imaging of the Dopamine D2 High-Affinity State with Positron Emission Tomography. J. Med. Chem. 2005, 48, 4153-4160 Boileau I. et al. Decreased binding of the D3 dopamine receptor-preferring ligand [¹¹C]-(+)-PHNO in drug-naïve Parkinson's disease. Brain, 2009, 132, 1366-1375.</p>	<p>1643.0001: 1 mg per vial 1643.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

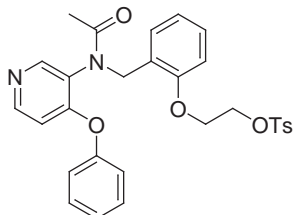
Product Number	Product	Order number / Unit
1645	<p>(+)-PHNO hydrochloride Reference standard for [¹¹C]-(+)-PHNO</p> <p>$C_{15}H_{21}NO_2 \cdot HCl$ Molar Mass: 283.79 [99705-65-4] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: 2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-4-propyl-, hydrochloride (1:1), (4aR,10bR)-; (4aR,10bR)- 2H-Naphth[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-4-propyl-, hydrochloride, (4aR-trans)- Synonyms: Noxazinal hydrochloride, Naxagolide hydrochloride, Nazagolide hydrochloride, Dopazinol hydrochloride, L647339, MK 458, (+)-PHNO hydrochloride, (+)-4-propyl-9-hydroxynaphthoxazine hydrochloride Literature: Wilson A.A. et al. [¹¹C]-(+)-4-Propyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol as a Potential Radiotracer for in Vivo Imaging of the Dopamine D2 High-Affinity State with Positron Emission Tomography. J. Med. Chem. 2005, 48, 4153-4160 Boileau I. et al. Decreased binding of the D3 dopamine receptor-preferring ligand [¹¹C]-(+)-PHNO in drug-naïve Parkinson's disease. Brain, 2009, 132, 1366-1375.</p>	<p>1645.0001: 1 mg per vial 1645.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

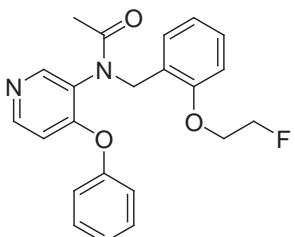
Product Number	Product	Order number / Unit
1646	<p>(+)-F-PHNO Reference standard [¹⁸F]-(+)-F-PHNO</p> <p>$C_{15}H_{20}FNO_2$ Molar Mass: 265.32 [905963-70-4] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 4-(3-fluoropropyl)-3,4,4a,5,6,10b-hexahydro-, (4aR,10bR)- Synonyms: 2H-Naphth[1,2-b]-1,4-oxazin-9-ol, 4-(3-fluoropropyl)-3,4,4a,5,6,10b-hexahydro-, (4aR,10bR)- Literature: Wilson A.A. et al. [¹¹C]-(+)-4-Propyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol as a Potential Radiotracer for in Vivo Imaging of the Dopamine D2 High-Affinity State with Positron Emission Tomography. J. Med. Chem. 2005, 48, 4153-4160 Boileau I. et al. Decreased binding of the D3 dopamine receptor-preferring ligand [¹¹C]-(+)-PHNO in drug-naïve Parkinson's disease. Brain, 2009, 132, 1366-1375. Wilson et al. Syntheses and in vitro evaluation of fluorinated naphthoxazines as dopamine D2/D3 receptor agonists: radiosynthesis, ex vivo biodistribution and autoradiography of [¹⁸F]F-PHNO. Nucl. Med. Biol. 2007, 34, 195-20</p>	<p>1646.0001: 1 mg per vial 1646.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

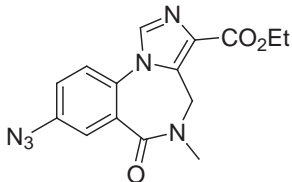
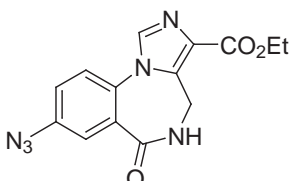
Product Number	Product	Order number / Unit
1647	<p>(+)-HNO hydrochloride (GMP) Precursor for [¹¹C]-(+)-PHNO Precursor for [¹⁸F]-(+)-F-PHNO</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{12}H_{15}NO_2 \cdot HCl$ Molar Mass: 241.71 [858517-21-2] Beige solid packaged in dark glass screw cap vials. Purity: $\geq 97\%$</p> <p>Certificates: CoA with NMR and IR spectra (identity); HPLC (purity); GC (residual solvents); inorganic impurities (GF-AAS)</p> <p>Chemical Name: CA index name: 2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-, hydrochloride (1:1), (4aR,10bR)</p> <p>Synonymes: (4aR,10bR)-3,4,4a,5,6,10b-hexahydro-2H-Naphth[1,2-b]-1,4-oxazin-9-ol, hydrochloride; (+)-3,4,4a,5,6,10b-Hexahydro-2H-naphtho[1,2-β][1,4]oxazin-9-ol hydrochloride; (4aR,10bR)-3,4,4a,5,6,10b-Hexahydro-2H-Naphth[1,2-β]-1,4-oxazin-9-ol, hydrochloride; (+)-HNO</p> <p>Literature: Same as product number 1643.</p>	<p>1647.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.</p> 

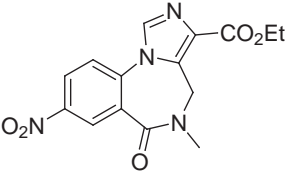
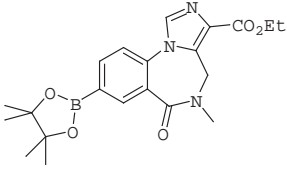
Product Number	Product	Order number / Unit
1652	<p>PBR28 precursor Precursor for [¹¹C]-PBR28 ([¹¹C]-N-(2-Methoxybenzyl)-N-(4-phenoxy-3-pyridin-3-yl)acetamide)</p> <p>$C_{20}H_{18}N_2O_3$ Molar Mass: 334.37 [1005325-42-7] Colourless solid packaged in dark glass vials. Purity: $> 95\%$</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Acetamide, N-[(2-hydroxyphenyl)methyl]-N-(4-phenoxy-3-pyridinyl)-</p> <p>Synonymes: n/a</p> <p>Literature: Wilson A.A. et al. Radiosynthesis and initial evaluation of [¹⁸F]-FEPPA for PET imaging of peripheral benzodiazepine receptors. Nucl. Med. Biol. 2008, 35, 305-314. Briard E. et al. Synthesis and Evaluation in Monkey of Two Sensitive ¹¹-Labeled Aryloxyanilide Ligands for Imaging Brain Peripheral Benzodiazepine Receptors In Vivo. J. Med. Chem. 2008, 51, 17-30 Imaizumi M. et al. PET imaging with [¹¹C]PBR28 can localize and quantify upregulated peripheral benzodiazepine receptors associated with cerebral ischemia in rat. Neurosci Lett. 2007, 411, 200-205.</p>	<p>1652.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1653	<p>PBR28 standard</p> <p>Reference standard for [¹¹C]-PBR28 ([¹¹C]-N-(2-Methoxybenzyl)-N-(4-phenoxy-3-yl)acetamide)</p> <p>C₂₁H₂₀N₂O₃ Molar Mass: 348.40 [253307-72-1]</p> <p>Colourless to slightly yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Acetamide, N-[(2-methoxyphenyl)methyl]-N-(3-phenoxy-4-pyridinyl)-</p> <p>Synonymes: N-Acetyl-N-(2-methoxybenzyl)-2-phenoxy-5-pyridinamine; 4-[N-Acetyl-N-[2-methoxybenzyl]amino]-3-phenoxy-5-pyridine, N-(2-Methoxybenzyl)-n-(4-phenoxy-3-yl) acetamide, PBR28</p> <p>Literature: Imaizumi M. et al. PET imaging with [¹¹C]PBR28 can localize and quantify upregulated peripheral benzodiazepine receptors associated with cerebral ischemia in rat. <i>Neurosci Lett.</i> 2007, 411, 200-205.</p>	<p>1653.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

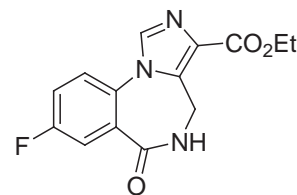
Product Number	Product	Order number / Unit
1654	<p>FEPPA precursor Precursor for [¹⁸F]-FEPPA ([¹⁸F]-N-(2-(2-Fluoroethoxy)benzyl)-N-(4-phenoxy-3-pyridinyl)acetamide) $C_{29}H_{28}N_2O_6S$ Molar Mass: 532.61 [1095267-89-2] Colourless foam or solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Acetamide, N-[[2-[2-[(4-methylphenyl)sulfonyl]oxy]ethoxy]phenyl]methyl]-N-(4-phenoxy-3-pyridinyl)- Synonyms: N-Acetyl-N-(2-fluoroethoxybenzyl)-2-phenoxy-5-pyridinamine Literature: Wilson A.A. et al. Radiosynthesis and initial evaluation of [¹⁸F]-FEPPA for PET imaging of peripheral benzodiazepine receptors. Nucl. Med. Biol. 2008, 35, 305-314.</p>	<p>1654.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1655	<p>FEPPA standard Reference standard for [¹⁸F]-FEPPA ([¹⁸F]-N-(2-(2-Fluoroethoxy)benzyl)-N-(4-phenoxy-3-pyridinyl)acetamide) $C_{22}H_{21}FN_2O_3$ Molar Mass: 380.41 [1095267-90-5] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Acetamide, N-[[2-(2-fluoroethoxy)phenyl]methyl]-N-(4-phenoxy-3-pyridinyl)- Synonyms: N-Acetyl-N-(2-fluoroethoxybenzyl)-2-phenoxy-5-pyridinamine Literature: Wilson A.A. et al. Radiosynthesis and initial evaluation of [¹⁸F]-FEPPA for PET imaging of peripheral benzodiazepine receptors. Nucl. Med. Biol. 2008, 35, 305-314.</p>	<p>1655.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1680	<p>Azidomazenil Reference standard for [¹¹C]Ro15-4513</p> <p>C₁₅H₁₄N₆O₃ Molar Mass: 326.31 [91917-65-6] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-azido-5,6-dihydro-6-oxo-, ethyl ester Synonymes: 8-Azido-5,6-dihydro-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid ethyl ester; Ro 15-4513</p> <p>Literature: Halldin C. et al. [¹¹C]Ro 15-4513, a ligand for visualization of benzodiazepine receptor binding. Preparation, autoradiography and positron emission tomography. Psychopharmacology 1992, 108, 16-22. Suhara T. et al. Visualization of α₅ subunit of GABAA/benzodiazepine receptor by [¹¹C]Ro15-4513 using positron emission tomography. Synapse 2003, 47, 200-208. Suzuki K. et al. Automated synthesis of the ultra high specific activity of [¹¹C]Ro15-4513 and its application in an extremely low concentration region to an ARG study. Nucl. Med. Biol. 2003, 30, 335-343.</p>	<p>1680.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1681	<p>Desmethy lazidomazenil Precursor for [¹¹C]Ro15-4513</p> <p>C₁₄H₁₂N₆O₃ Molar Mass: 312.28 [143188-51-6] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-azido-5,6-dihydro-6-oxo-, ethyl ester Synonymes: Ro 44-3902</p> <p>Literature: Halldin C. et al. [¹¹C]Ro 15-4513, a ligand for visualization of benzodiazepine receptor binding. Preparation, autoradiography and positron emission tomography. Psychopharmacology 1992, 108, 16-22. Suhara T. et al. Visualization of α₅ subunit of GABAA/benzodiazepine receptor by [¹¹C]Ro15-4513 using positron emission tomography. Synapse 2003, 47, 200-208. Suzuki K. et al. Automated synthesis of the ultra high specific activity of [¹¹C]Ro15-4513 and its application in an extremely low concentration region to an ARG study. Nucl. Med. Biol. 2003, 30, 335-343.</p>	<p>1681.0002: 2 mg per vial 1681.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1690	<p>Nitromazenil Precursor for [¹⁸F]Flumazenil</p> <p>C₁₅H₁₄N₄O₅ Molar Mass: 330.3 [84377-97-9] Yellow solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 5,6-dihydro-5-methyl-8-nitro-6-oxo-, ethyl ester Synonyms: 5,6-Dihydro-5-methyl-8-nitro-6-oxo-4H-imidazo[1,5-a][1,4]-benzodiazepine-3-carboxylic acid ethyl ester; Ro 15-2344</p> <p>Literature: Ryzhikov N.N. et al. Preparation of highly specific radioactivity [¹⁸F]flumazenil and its evaluation in cynomolgus monkey by positron emission tomography. Nucl. Med. Biol. 2005, 32, 109-116. Broggini G. et al. A new synthesis of flumazenil suitable for fluorine-18 labeling. Org. Prep. Proced. Int. 2003, 35, 609-613.</p>	<p>1690.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1691	<p>Mazenil pinacol boronate Precursor for [¹⁸F]Flumazenil</p> <p>C₂₁H₂₆BN₃O₅ Molar Mass: 411.26 CAS-RN not yet assigned Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: 5-Methyl-6-oxo-8-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-5,6-dihydro-4H-2,5,10b-triaza-benzo[e]azulene-3-carboxylic acid ethyl ester Synonyms: [¹⁸F]Flumazenil pinacol boronate precursor; [¹⁸F]Flumazenil Bpin precursor Literature: Preshlock S. Enhanced Copper-Mediated ¹⁸F-Fluorination of Aryl Boronic Esters provides Eight Radiotracers for PET Applications. Chem. Commun. 2016, 52, 8361-8364.</p>	<p>1691.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
1700	<p>Desmethylflumazenil Precursor for [¹¹C]Flumazenil Precursor for 5-(2'-[¹⁸F]fluoroethyl)Flumazenil ([¹⁸F]FEF) $C_{14}H_{12}FN_3O_3$ Molar Mass: 289.26 [79089-72-8] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-6-oxo-, ethyl ester Synonyms: 8-Fluoro-5,6-dihydro-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid ethyl ester; Desmethyl-FMZ; Ro 15-5528</p>	<p>1700.0001: 1 mg per vial 1700.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p>

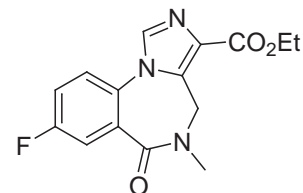


Literature:

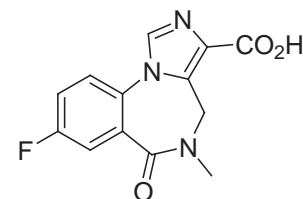
Nagren K. et al. Methylation of amide and thiol functions with [¹¹C]methyl triflate, as exemplified by [¹¹C]NMSP, [¹¹C]flumazenil and [¹¹C]methionine. J. Labelled Compd. Radiopharm. 1998, 41, 831-841.

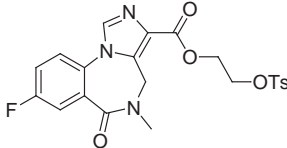
Maziere M. et al. Synthesis of Ethyl 8-Fluoro-5,6-dihydro-5-[¹¹C]methyl-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylate (RO 15.1788-¹¹C): A Specific Radioligand for the In Vivo Study of Central Benzodiazepine Receptors by Positron Emission Tomography. Int. J. Appl. Radiat. Isot. 1984, 35, 973-976.

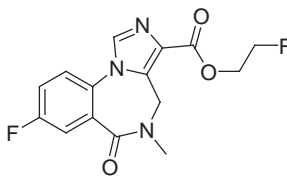
Product Number	Product	Order number / Unit
1710	<p>Flumazenil</p> <p>Reference standard for [¹¹C]Flumazenil</p> <p>Reference standard for [¹⁸F]Flumazenil</p> <p>C₁₅H₁₄FN₃O₃ Molar Mass: 303.29</p> <p>[78755-81-4]</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-, ethyl ester</p> <p>Synonymes: 8-Fluoro-5,6-dihydro-5-methyl-6-oxo-4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid ethyl ester; Anexate; Flumazenil; Flumazepil; Flumenazil; Lanexat; Mazicon; FMZ; Ro 15-1788</p> <p>Literature: Nagren K. et al. Methylation of amide and thiol functions with [¹¹C]methyl triflate, as exemplified by [¹¹C]NMSP, [¹¹C]flumazenil and [¹¹C]methionine. J. Labelled Compd. Radiopharm. 1998, 41, 831-841.</p> <p>Suzuki K. et al. Computer-Controlled Large Scale Production of High Specific Activity [¹¹C]Ro 15-1788 for PET Studies of Benzodiazepine Receptors. Int. J. Appl. Radiat. Isot. 1985, 36, 971-976.</p> <p>Maziere M. et al. Synthesis of Ethyl-8-fluoro-5,6-dihydro-5-[¹¹C]methyl-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylate (RO 15.1788-¹¹C): A Specific Radioligand for the In Vivo Study of Central Benzodiazepine Receptors by Positron Emission Tomography. Int. J. Appl. Radiat. Isot. 1984, 35, 937-976.</p>	<p>1710.0010: 10 mg per vial</p> <p>1710.0020: 20 mg per vial</p> <p>1710.0100: 100 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>



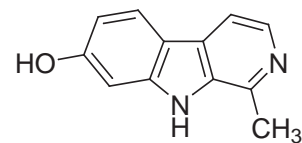
Product Number	Product	Order number / Unit
1720	<p>Flumazenil acid</p> <p>Precursor for [¹⁸F]FFMZ</p> <p>(2'-[¹⁸F]Fluorethylflumazenil)</p> <p>C₁₃H₁₀FN₃O₃ Molar Mass: 275.24</p> <p>[84378-44-9]</p> <p>Colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-</p> <p>Synonymes: O-Desethylflumazenil; 3-Desethyl-FMZ; Ro 15-3890</p> <p>Literature: Wadsak W. et al. Radiosynthesis of 3-[2[¹⁸F]fluoro-]flumazenil ([¹⁸F]-FFMZ). J. Labelled Compd. Radiopharm. 2003, 46, 1229-1240.</p> <p>Yoon Y.H. et al. Novel one-pot one-step synthesis of 2'-[¹⁸F]fluoroflumazenil (FFMZ) for benzodiazepine receptor imaging. Nucl. Med. Biol. 2003, 30, 521-527.</p> <p>Mitterhauser M. et al. Biological evaluation of 2'-[¹⁸F]fluoroflumazenil ([¹⁸F]FFMZ), a potential GABA receptor ligand for PET. Nucl. Med. Biol. 2004, 31, 291-295</p> <p>Young S.C. et al. Biological properties of 2'-[¹⁸F]fluoroflumazenil for central benzodiazepine receptor imaging. Nucl. Med. Biol. 2005, 32, 263-268.</p>	<p>1720.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>



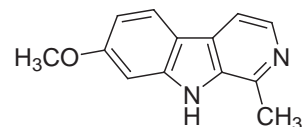
Product Number	Product	Order number / Unit
1721	<p>Tosyloxyethylflumazenil Precursor for [¹⁸F]FFMZ (2'-[¹⁸F]Fluorethylflumazenil) $C_{22}H_{20}FN_3O_6S$ Molar Mass: 473.47 [676437-17-5] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-, 2-[[[4-methylphenyl]sulfonyl]oxy]ethyl ester Synonyms: TFMZ; 8-Fluoro-5-methyl-6-oxo-5,6-dihydro-4H-2,5,10b-triaza-benzo[e]azulene-3-carboxylic acid 2-(toluene-4-sulfonyloxy)-ethyl ester; 2'-Tosyloxyflumazenil Literature: Yoon Y.H. et al. Novel one-pot one-step synthesis of 2'-[¹⁸F]fluoroflumazenil (FFMZ) for benzodiazepine receptor imaging. Nucl. Med. Biol. 2003, 30, 521-527.</p>	<p>1721.0005: 5 mg per vial 1721.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

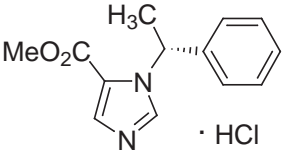
Product Number	Product	Order number / Unit
1730	<p>Fluoroethylflumazenil Reference standard for [¹⁸F]FFMZ (2'-[¹⁸F]Fluorethylflumazenil) $C_{15}H_{13}F_2N_3O_3$ Molar Mass: 321.28 [676437-19-7] ([¹⁸F]FFMZ) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-, (2-fluoroethyl) ester Synonyms: 3'-(2-Fluoroethyl)flumazenil; 2'-Fluoroflumazenil; FFMZ Literature: Wadsak W. et al. Radiosynthesis of 3-[2[¹⁸F]fluoro-]flumazenil ([¹⁸F]-FFMZ). J. Labelled Compd. Radiopharm. 2003, 46, 1229-1240. Yoon Y.H. et al. Novel one-pot one-step synthesis of 2'-[¹⁸F]fluoroflumazenil (FFMZ) for benzodiazepine receptor imaging. Nucl. Med. Biol. 2003, 30, 521-527. Mitterhauser M. et al. Biological evaluation of 2'-[¹⁸F]fluoroflumazenil ([¹⁸F]FFMZ), a potential GABA receptor ligand for PET. Nucl. Med. Biol. 2004, 31, 291-295 Young S.C. et al. Biological properties of 2'-[¹⁸F]fluoroflumazenil for central benzodiazepine receptor imaging. Nucl. Med. Biol. 2005, 32, 263-268.</p>	<p>1730.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

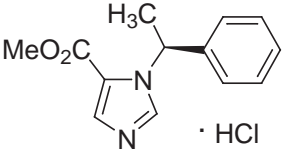
Product Number	Product	Order number / Unit
1753	Harmol Precursor for [¹¹C]-Harmine $C_{12}H_{10}N_2O$ Molar Mass: 198.22 [487-03-6] Colourless to slightly greenish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 9H-Pyrido[3,4-b]indol-7-ol, 1-methyl- Synonyms: Methyl-9H- β -carbolin-7-ol; β -Carboline, 7-hydroxy-1-methyl-; 7-Hydrox-1-methyl-9H-pyrido[3,4-b]indole; 1-Methyl-9H-pyrido[3,4-b]indol-7-ol; Harmol; Methylpyridoindolol; 1-Methyl- β -carboline-7-ol Literature: Bergström M. et al. Synthesis of some ¹¹ C-labelled MAO-A inhibitors and their in vivo uptake kinetics in rhesus monkey brain. Nucl. Med. Biol. 1997, 24, 381-388.	1753.0001: 1 mg per vial 1753.0010: 10 mg per vial 1753.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

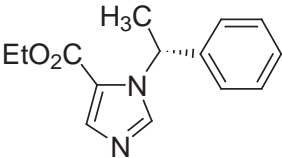
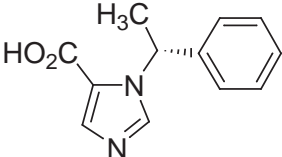


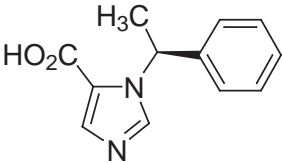
Product Number	Product	Order number / Unit
1755	Harmine Reference standard for [¹¹C]-Harmine $C_{13}H_{12}N_2O$ Molar Mass: 212.25 [442-51-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 9H-Pyrido[3,4-b]indole, 7-methoxy-1-methyl- Synonyms: 1-Methyl-7-methoxy- β -carboline; 7-Methoxy-1-methyl-9H-pyrido[3,4-b]indole; Banisterin; Banisterine; Harmin; Harmine; Leucoharmine; Telepathin; Telepathine; Yagein; Yageine Literature: Bergström M. et al. Synthesis of some ¹¹ C-labelled MAO-A inhibitors and their in vivo uptake kinetics in rhesus monkey brain. Nucl. Med. Biol. 1997, 24, 381-388.	1755.0001: 1 mg per vial 1755.0010: 10 mg per vial 1755.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

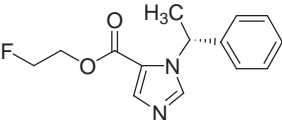


Product Number	Product	Order number / Unit
1760	(R)-Metomidate hydrochloride Reference standard for [¹¹C]Metomidate $C_{13}H_{14}N_2O_2 \cdot HCl$ Molar Mass: 266.72 [66392-64-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1H-Imidazole-5-carboxylic acid, 1-[(1R)-1-phenylethyl]-, methyl ester hydrochloride Synonymes: (+)-Metomidate hydrochloride; Imidazole-5-carboxylic acid, 1-(α-methylbenzyl)-, methyl ester, (R)-(+)-hydrochloride Literature: Bergström M. et al. In Vitro and In Vivo Primate Evaluation of Carbon-11-Etomidate and Carbon-11-Metomidate as Potential Tracers for PET Imaging of the Adrenal Cortex and Its Tumors. J. Nucl. Med. 1998, 39, 982-989. Heikki M. et al. Imaging of Adrenal Incidentalomas with PET using ¹¹ C-Metomidate and ¹⁸ F-FDG. J. Nucl. Med. 2004, 45, 972-979.	1760.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

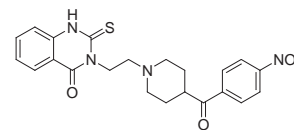
Product Number	Product	Order number / Unit
1762	(S)-Metomidate hydrochloride Reference standard for [¹¹C]Metomidate $C_{13}H_{14}N_2O_2 \cdot HCl$ Molar Mass: 266.72 [66392-65-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: 1H-Imidazole-5-carboxylic acid, 1-[(1S)-1-phenylethyl]-, methyl ester hydrochloride; 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, methyl ester, monohydrochloride, (S)- Synonymes: (-)-Metomidate hydrochloride; Imidazole-5-carboxylic acid, 1-(α-methylbenzyl)-, methyl ester, (S)-(-)-hydrochloride Literature: Bergström M. et al. In Vitro and In Vivo Primate Evaluation of Carbon-11-Etomidate and Carbon-11-Metomidate as Potential Tracers for PET Imaging of the Adrenal Cortex and Its Tumors. J. Nucl. Med. 1998, 39, 982-989. Heikki M. et al. Imaging of Adrenal Incidentalomas with PET using ¹¹ C-Metomidate and ¹⁸ F-FDG. J. Nucl. Med. 2004, 45, 972-979.	1762.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1770	<p>(R)-Etomidate Reference standard for [¹¹C]Etomidate</p> <p>C₁₄H₁₆N₂O₂ Molar Mass: 244.29 [33125-97-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-Imidazole-5-carboxylic acid, 1-[(1R)-1-phenylethyl]-, ethyl ester Synonyms: 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, ethyl ester, (R)-; Imidazole-5-carboxylic acid, 1-(α-methylbenzyl)-, ethyl ester, (R)-(+)-; (+)-Etomidate; Amidate; D-Etomidate; Hypnomidate; Propiscin; R 16659; Radenarcon Literature: Bergström M. et al. In Vitro and In Vivo Primate Evaluation of Carbon-11-Etomidate and Carbon-11-Metomidate as Potential Tracers for PET Imaging of the Adrenal Cortex and Its Tumors. J. Nucl. Med. 1998, 39, 982-989.</p>	<p>1770.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1780	<p>(R)-Desethyl-Etomidate Precursor for [¹¹C]Metomidate, [¹¹C]Etomidate, and (R)-[¹⁸F]FETO (R)-[¹⁸F]Fluoroethyletomidate</p> <p>C₁₂H₁₂N₂O₂ Molar Mass: 216.24 [56649-48-0] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-Imidazole-5-carboxylic acid, 1-[(1R)-1-phenylethyl]- Synonyms: (R)-(+)-1-(1-Phenylethyl)-1H-imidazole-5-carboxylic acid; 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, (R)-; 1H-Imidazole-5-carboxylic acid, 1-[(1R)-1-phenylethyl]-; R28141 Literature: Bergström M. et al. In Vitro and In Vivo Primate Evaluation of Carbon-11-Etomidate and Carbon-11-Metomidate as Potential Tracers for PET Imaging of the Adrenal Cortex and Its Tumors. J. Nucl. Med. 1998, 39, 982-989. Wadsak W. et al. Synthesis of [¹⁸F]FETO, a novel potential 11-beta hydroxylase inhibitor. J. Labelled Compd. Radiopharm. 2003, 46, 379-388. Mitterhauser M. et al. In vivo and in vitro evaluation of [¹⁸F]FETO with respect to the adrenocortical and GABAergic system in rats. Eur. J. Nucl. Med. Mol. Imaging 2003, 30, 1398-1401.</p>	<p>1780.0003: 3 mg per vial Please inquire for customized filling and bulk quantities.</p> 

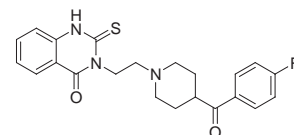
Product Number	Product	Order number / Unit
1782	<p>(S)-Desethyl-Etomidate Precursor for [¹¹C]Metomidate and [¹¹C]Etomidate and (S)-[¹⁸F]FETO ((S)-[¹⁸F]Fluoroethyletomidate) $C_{12}H_{12}N_2O_2$ Molar Mass: 216.24 [56649-49-1] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: 1H-Imidazole-5-carboxylic acid, 1-[(1S)-1-phenylethyl]-; 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, (S)- Synonyms: (S)-(-)-1-(1-Phenylethyl)-1H-imidazole-5-carboxylic acid; 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, (S)-; 1H-Imidazole-5-carboxylic acid, 1-[(1S)-1-phenylethyl]- Literature: Bergström M. et al. In Vitro and In Vivo Primate Evaluation of Carbon-11-Etomidate and Carbon-11-Metomidate as Potential Tracers for PET Imaging of the Adrenal Cortex and Its Tumors. J. Nucl. Med. 1998, 39, 982-989. Wadsak W. et al. Synthesis of [¹⁸F]FETO, a novel potential 11-beta hydroxylase inhibitor. J. Labelled Compd. Radiopharm. 2003, 46, 379-388. Mitterhauser M. et al. In vivo and in vitro evaluation of [¹⁸F]FETO with respect to the adrenocortical and GABAergic system in rats. Eur. J. Nucl. Med. Mol. Imaging 2003, 30, 1398-1401.</p>	<p>1782.0003: 3 mg per vial Please inquire for customized filling and bulk quantities.</p> 

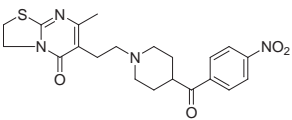
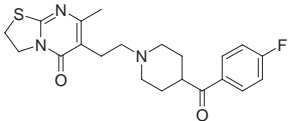
Product Number	Product	Order number / Unit
1790	<p>(R)-Fluoroethyl-Etomidate Reference standard for (R)-[¹⁸F]FETO (R)-[¹⁸F]Fluoroethyletomidate $C_{14}H_{15}FN_2O_2$ Molar Mass: 262.28 [960403-07-0] Yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 1H-Imidazole-5-carboxylic acid, 1-[(1R)-1-phenylethyl]-, 2-fluoroethyl ester Synonyms: (R)-1-(1-Phenylethyl)-1H-imidazole-5-carboxylic acid, 2-fluoro ethyl ester; FETO Literature: Mitterhauser M. et al. In vivo and in vitro evaluation of [¹⁸F]FETO with respect to the adrenocortical and GABAergic system in rats. Eur. J. Nucl. Med. Mol. Imaging 2003, 30, 1398-1401. Ettlinger D.E. et al. [¹⁸F]FETO: metabolic considerations. Eur. J. Nucl. Med. Mol. Imaging 2006, 33, 928-931.</p>	<p>1790.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

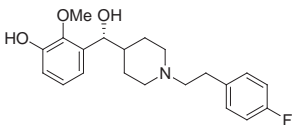
Product Number	Product	Order number / Unit
1800	Nitro-Altanserin Precursor for [¹⁸F]Fluoro-Altanserin $C_{22}H_{22}N_4O_4S$ Molar Mass: 438.5 [139418-53-4] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 4(1H)-Quinazolinone, 3-(2-(4-(4-nitrobenzoyl)-1-piperidinyl)ethyl)-2,3-dihydro-2-thioxo- Synonyms: n/a Literature: Lemaire C. et al. Fluorine-18-Altanserin : A Radioligand for the Study of Serotonin Receptors with PET : radiolabeling and In Vivo Biologic Behavior in Rats. J. Nucl. Med. 1991, 32, 2266-2272. Tan P.-Z. et al. Characterization of Radioactive Metabolites of 5-HT _{2A} Receptor PET Ligand [¹⁸ F]Altanserin in Human and Rodent. Nucl. Med. Biol. 1999, 26, 601-608. Tan P.-Z. et al. Rapid Synthesis of F-18 and H-2 Dual-labeled Altanserin. A Metabolically Resistant PET Ligand for 5-HT _{1A} Receptors. J. Labelled Compd. Radiopharm. 1999, 42, 457-467.	1800.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

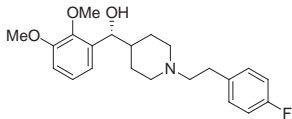


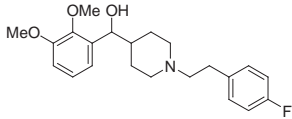
Product Number	Product	Order number / Unit
1810	Altanserin Reference standard for [¹⁸F]Fluoro-Altanserin $C_{22}H_{22}FN_3O_2S$ Molar Mass: 411.49 [76330-71-7] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 4(1H)-Quinazolinone, 3-(2-(4-(4-fluorobenzoyl)-1-piperidinyl)ethyl)-2,3-dihydro-2-thioxo- Synonyms: n/a Literature: Lemaire C. et al. Fluorine-18-Altanserin : A Radioligand for the Study of Serotonin Receptors with PET : radiolabeling and In Vivo Biologic Behavior in Rats. J. Nucl. Med. 1991, 32, 2266-2272. Tan P.-Z. et al. Characterization of Radioactive Metabolites of 5-HT _{2A} Receptor PET Ligand [¹⁸ F]Altanserin in Human and Rodent. Nucl. Med. Biol. 1999, 26, 601-608. Tan P.-Z. et al. Rapid Synthesis of F-18 and H-2 Dual-labeled Altanserin. A Metabolically Resistant PET Ligand for 5-HT _{1A} Receptors. J. Labelled Compd. Radiopharm. 1999, 42, 457-467.	1810.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

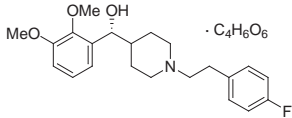


Product Number	Product	Order number / Unit
1820	<p>Nitro-Setoperone Precursor for [¹⁸F]Fluoro-Setoperone</p> <p>C₂₁H₂₄N₄O₄S Molar Mass: 428.50 [113981-16-1] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 5H-Thiazolo[3,2-a]pyrimidin-5-one, 2,3-dihydro-7-methyl-6-[2-[4-(4-nitrobenzoyl)-1-piperidinyl]ethyl]- Synonyms: 6-[2-[4-(4-nitrobenzoyl)-1-piperidinyl]ethyl]-2,3-dihydro-7-methyl- 5H-thiazolo[3,2-a]pyrimidin-5-one</p> <p>Literature: Blin J. et al. Blood-cerebrospinal fluid and blood-brain barriers imaged by ¹⁸F-Labeled metabolites of ¹⁸F-Setoperone studied in humans using positron emission tomography. J. Neurochem. 1992, 58, 2303-2310. Blin J. et al. [¹⁸F]Setoperone: a new high-affinity ligand for positron emission tomography study of the serotonin-2 receptors in baboon brain in vivo. Eur. J. Pharm. 1988, 147, 73-82. Crouzel C. et al. Labeling of a serotonergic ligand with ¹⁸F: [¹⁸F]setoperone. J. Labelled Compd. Radiopharm. 1988, 25, 403-414.</p>	<p>1820.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
1830	<p>Setoperone Reference standard for [¹⁸F]Fluoro-Setoperone</p> <p>C₂₁H₂₄FN₃O₂S Molar Mass: 401.50 [86487-64-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 5H-Thiazolo[3,2a]pyrimidin-5-one, 6-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-2,3-dihydro-7-methyl- Synonyms: R 52245 Literature: Blin J. et al. [¹⁸F]Setoperone : a new high-affinity ligand for positron emission tomography study of the serotonin-2 receptors in baboon brain in vivo. Eur. J. Pharm. 1988, 147, 73-82. Blin J. et al. Blood-cerebrospinal fluid and blood-brain barriers imaged by ¹⁸F-Labeled metabolites of ¹⁸F-Setoperone studied in humans using positron emission tomography. J. Neurochem. 1992, 58, 2303-2310. Crouzel C. et al. Labeling of a serotonergic ligand with ¹⁸F: [¹⁸F]setoperone. J. Labelled Compd. Radiopharm. 1988, 25, 403-414.</p>	<p>1830.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

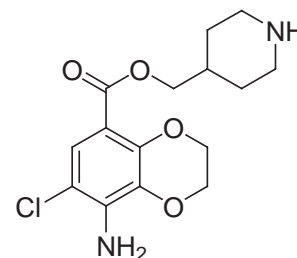
Product Number	Product	Order number / Unit
1840	MDL105725 Precursor for [¹¹C]MDL100907 $C_{21}H_{26}FNO_3$ Molar Mass: 359.43 [189192-18-5] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra; optical rotation Chemical Name: CA index name: 4-Piperidinemethanol, 1-[2-(4-fluorophenyl)ethyl]-α-(3-hydroxy-2-methoxyphenyl)-, (R) Synonyms: (R)-(+)-α-(3-Hydroxy-2-methoxyphenyl)-1-[2-(4-fluoro-phenyl)ethyl]-4-piperidine methanol; Desmethyl-MDL100907 Literature: Ullrich T. et al. A practical synthesis of the serotonin 5-HT _{2a} receptor antagonist MDL100907, its enantiomers and their 3-phenolic derivatives as precursors for [¹¹ C]labelled PET ligands. Bioorg. Med. Chem. 2000, 8, 2427-2432. Huang Y. et al. An efficient synthesis of the precursors of [¹¹ C] MDL100907 labeled in two specific positions. J. Labelled Compd. Radiopharm. 1999, 42, 949-957.	1840.0001: 1 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1850	MDL100907 Reference standard for [¹¹C]MDL100907 $C_{22}H_{28}FNO_3$ Molar Mass: 373.46 [139290-65-6] Colourless oil or solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra; optical rotation Chemical Name: CA index name: 4-Piperidinemethanol, 1-[2-(4-fluorophenyl)ethyl]-α-(2,3-dimethoxyphenyl)-, (R) Synonyms: (R)-(+)-α-(2,3-Dimethoxyphenyl)-1-[2-(4-fluoro-phenyl)ethyl]-4-piperidine-methanol Literature: Ullrich T. et al. A practical synthesis of the serotonin 5-HT _{2a} receptor antagonist MDL100907, its enantiomers and their 3-phenolic derivatives as precursors for [¹¹ C]labelled PET ligands. Bioorg. Med. Chem. 2000, 8, 2427-2432. Huang Y. et al. An efficient synthesis of the precursors of [¹¹ C] MDL100907 labeled in two specific positions. J. Labelled Compd. Radiopharm. 1999, 42, 949-957.	1850.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

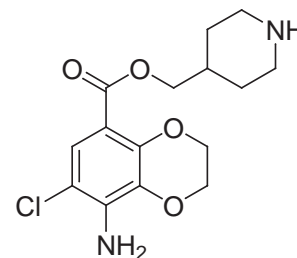
Product Number	Product	Order number / Unit
1860	MDL100151 Reference standard for rac-[¹¹C]MDL100907 $C_{22}H_{28}FNO_3$ Molar Mass: 373.46 [139290-69-0] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 4-Piperidinemethanol, α-(2,3-dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]- Synonyms: (±)-α-(2,3-Dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperidine-methanol; rac-MDL100907 Literature: Sanchez C. et al. In-vivo assessment of 5-HT _{2A} and 5-HT _{2C} antagonistic properties of newer antipsychotics. Behavioural Pharmacology 2000, 11, 291-98.	1860.0001: 1 mg per vial 1860.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

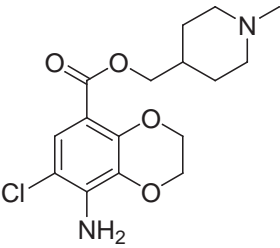
Product Number	Product	Order number / Unit
1870	MDL100907 tartrate salt Reference standard for [¹¹C]MDL100907 $C_{22}H_{28}FNO_3 \cdot C_4H_6O_6$ Molar Mass: 523.55 [139290-65-6] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra; optical rotation Chemical Name: 4-Piperidinemethanol, 1-[2-(4-fluorophenyl)ethyl]-α-(2,3-dimethoxyphenyl)-, (R), (R,R)-tartrate Synonyms: (R)-(+)-α-(2,3-Dimethoxyphenyl)-1-[2-(4-fluoro-phenyl)ethyl]-4-piperidine methanol (R,R)-tartrate; MDL100907-L-tartrate Literature: Ullrich T. et al. A practical synthesis of the serotonin 5-HT _{2a} receptor antagonist MDL100907, its enantiomers and their 3-phenolic derivatives as precursors for [¹¹ C]labelled PET ligands. Bioorg. Med. Chem. 2000, 8, 2427-2432. Huang Y. et al. An efficient synthesis of the precursors of [¹¹ C] MDL100907 labeled in two specific positions. J. Labelled Compd. Radiopharm. 1999, 42, 949-957.	1870.0001: 1 mg per vial 1870.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1880	SB206453 Precursor for [¹¹C]SB207145 $C_{15}H_{19}ClN_2O_4$ Molar Mass: 326.78 [148702-73-2] Colourless to yellowish solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1,4-Benzodioxin-5-carboxylic acid, 8-amino-7-chloro-2,3-dihydro-, 4-piperidinylmethyl ester Synonyms: 8-Amino-7-chloro-2,3-dihydro-benzo[1,4]dioxine-5-carboxylic acid piperidin-4-ylmethyl ester; 8-Amino-7-chloro-(4-piperidylmethyl)-1,4-benzodioxan-5-carboxylate; [¹¹ C]SB207145 precursor Literature: Gee A.D. et al. Synthesis and evaluation of [¹¹ C]SB207145 as the first in vivo serotonin 5-HT ₄ receptor radioligand for PET imaging in man. Curr. Radiopharm. 2008, 1, 110-114. Marner L. et al. Kinetic modeling of ¹¹ C-SB207145 binding to 5-HT ₄ receptors in the human brain in vivo. J. Nucl. Med. 2009, 50, 900-908.	1880.0010: 10 mg per vial 1880.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.

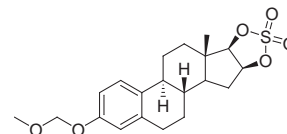


Product Number	Product	Order number / Unit
1881	SB206453 (GMP) Precursor for [¹¹C]SB207145 Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) $C_{15}H_{19}ClN_2O_4$ Molar Mass: 326.78 [148702-73-2] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 97 % Certificates: CoA with NMR and IR spectra; melting point (identity); HPLC (purity); GC (residual solvents), microbiology test Chemical Name: CA index name: 1,4-Benzodioxin-5-carboxylic acid, 8-amino-7-chloro-2,3-dihydro-, 4-piperidinylmethyl ester Synonyms: 8-Amino-7-chloro-2,3-dihydro-benzo[1,4]dioxine-5-carboxylic acid piperidin-4-ylmethyl ester; 8-Amino-7-chloro-(4-piperidylmethyl)-1,4-benzodioxan-5-carboxylate; [¹¹ C]SB207145 precursor Literature: Same as product number 1880.	1881.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.

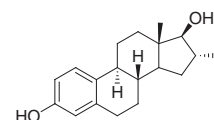


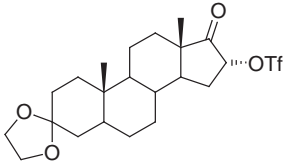
Product Number	Product	Order number / Unit
1882	<p>SB207145</p> <p>Reference standard for [¹¹C]SB207145</p> <p>C₁₆H₂₁ClN₂O₄ Molar Mass: 340.80 [148702-79-8]</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 1,4-Benzodioxin-5-carboxylic acid, 8-amino-7-chloro-2,3-dihydro-, (1-methyl-4-piperidiny)methyl ester</p> <p>Synonymes: 8-Amino-7-chloro-2,3-dihydro-benzo[1,4]dioxine-5-carboxylic acid 1-methyl-piperidin-4-ylmethyl ester; 8-Amino-7-chloro-5-(1-methyl-4-piperidinylmethyl)-1,4-benzodioxan carboxylate</p> <p>Literature: Gee A.D. et al. Synthesis and evaluation of [¹¹C]SB207145 as the first in vivo serotonin 5-HT₄ receptor radioligand for PET imaging in man. Curr. Radiopharm. 2008, 1, 110-114. Marner L. et al. Kinetic modeling of ¹¹C-SB207145 binding to 5-HT₄ receptors in the human brain in vivo. J. Nucl. Med. 2009, 50, 900-908.</p>	<p>1882.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

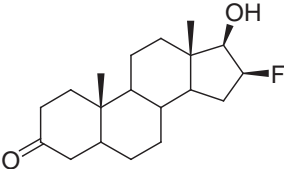
Product Number	Product	Order number / Unit
1900	MMSE Precursor for 16α-[¹⁸F]Fluoroestradiol $C_{20}H_{26}O_6S$ Molar Mass: 394.48 [177714-21-5] Nearly colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Estra-1,3,5(10)-triene-16,17-diol, 3-(methoxymethoxy)-, cyclic sulfate, (16 β ,17 β) Synonyms: 3-(Methoxymethoxy)-1,3,5(10)-gonatriene-16 β ,17 β -diol-16,17-cyclic sulfate; 3-O-(Methoxymethyl)-16,17-O-sulfonyl-16-epiestriol; 3-Methoxymethyl-16 β ,17 β -epiestriol-O-cyclic sulfone; FES precursor Literature: Roemer J. et al. Automated production of n.c.a. 16 α -[¹⁸ F]fluoroestradiol. Forschungszent. Rossendorf, [Ber.] FZR 1997, 200, 188-192. Lim J.L. et al. The use of 3-methoxymethyl-16 α ,17 β -epiestriol-O-cyclic sulfone as the precursor in the synthesis of [¹⁸ F]-16 α -fluoroestradiol. Nucl. Med. Biol. 1996, 23, 911-915. Roemer J. et al. 13C NMR spectroscopic characterization of estra-1,3,5(10)-triene-3,17 β -diol and 3,16,17-triols, and some of their 3-O-methoxymethyl and 16 α -fluoro derivatives. Forschungszent. Rossendorf, [Ber.] FZR 1996, 122, 27-30. Berridge M.S. et al. Cyclic sulfates: useful substrates for selective nucleophilic substitution. J. Org. Chem. 1990, 55, 1211-1217.	1900.0001: 1 mg per vial 1900.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

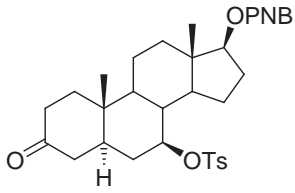


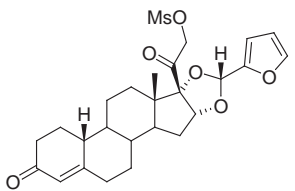
Product Number	Product	Order number / Unit
1910	16α-Fluoroestradiol Reference standard for 16α-[¹⁸F]Fluoroestradiol $C_{18}H_{23}FO_2$ Molar Mass: 290.37 [92817-10-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 90 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Estra-1,3,5(10)-triene-3,17-diol, 16-fluoro-, (16 α ,17 β) Synonyms: 16 α -Fluoro-13 β -methyl-1,3,5(10)-gonatriene-3,17 β -diol; 16 α -Fluoro-17 β -estradiol; FES Literature: Mankoff D.A. et al. [¹⁸ F]Fluoroestradiol Radiation Dosimetry in Human PET Studies. J. Nucl. Med. 2001, 42, 679-684. Stalford A.C. et al. The metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting the oxidative biotransformations of an estrogen-receptor imaging agent. Steroids. 1997, 62, 750-761. Roemer J. et al. Further 13C NMR spectroscopic proof of 16 α -F configuration in 16-fluoroestradiol derivatives. Forschungszent. Rossendorf, [Ber.] FZR 1997, 165, 192-193.	1910.0001: 1 mg per vial 1910.0002: 2 mg per vial 1910.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

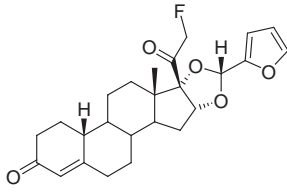


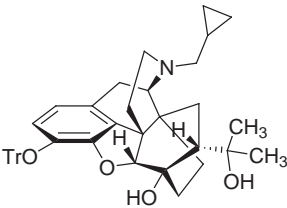
Product Number	Product	Order number / Unit
1916	<p>FDHT precursor</p> <p>Precursor for [¹⁸F]FDHT (16β-[¹⁸F]fluoro-5α-dihydrotestosterone)</p> <p>C₂₂H₃₁F₃O₆S Molar Mass: 480.54 [141664-05-3]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Androstane-3,17-dione, 16-[[[(trifluoromethyl)sulfonyl]oxy]-, cyclic 3-(1,2-ethanediy acetal), (5α,16α)-</p> <p>Synonymes: 16α-[[[(trifluoromethyl)sulfonyl]oxy]-3,3-(ethylenedioxy)androstane-17-one; [¹⁸F]FDHT precursor</p> <p>Literature: Liu A. et al. Fluorine-18-Labeled Androgens: Radiochemical Synthesis and Tissue Distribution Studies on Six fluorine-Substituted Androgens, Potential Imaging Agents for Prostatic Cancer. J. Nucl. Med 1992, 33, 724-734. Liu A. et al. Fluorine-18-Labeled Androgens: Radiochemical Synthesis and Tissue Distribution Studies on Six fluorine-Substituted Androgens, Potential Imaging Agents for Prostatic Cancer. J. Nucl. Med 1992, 33, 724-734. Zhou D. et al. Optimization of the preparation of fluorine-18-labeled steroid receptor ligands 16α-[¹⁸F]fluoroestradiol (FES), [¹⁸F]fluoro furanylnorprogesterone (FFNP), and 16β-[¹⁸F]fluoro-5α-dihydrotestosterone (FDHT) as radiopharmaceuticals. J. Label. Compd. Radiopharm. 2014, 5, 371-377 DOI: 10.1002/jlcr.3191 Dehdashti F. et al. Positron tomographic assessment of androgen receptors in prostatic carcinoma. Eur. J. Nucl. Med. Mol. Imaging 2005, 32, 344-350.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

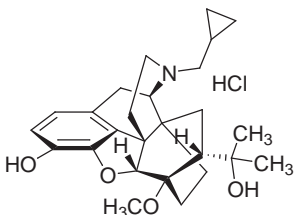
Product Number	Product	Order number / Unit
1918	<p>FDHT standard</p> <p>Reference standard for [¹⁸F]FDHT (16β-[¹⁸F]fluoro-5α-dihydrotestosterone)</p> <p>C₁₉H₂₉FO₂ Molar Mass: 308.43 [141663-88-9]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: Androstan-3-one, 16-fluoro-17-hydroxy-, (5α,16α,17β)-</p> <p>Synonymes: 16β-fluoro-5α-dihydrotestosterone; 16β-Fluorodihydrotestosterone; [¹⁸F]FDHT standard</p> <p>Literature: Liu A. et al. Fluorine-18-Labeled Androgens: Radiochemical Synthesis and Tissue Distribution Studies on Six fluorine-Substituted Androgens, Potential Imaging Agents for Prostatic Cancer. J. Nucl. Med 1992, 33, 724-734. Liu A. et al. Fluorine-18-Labeled Androgens: Radiochemical Synthesis and Tissue Distribution Studies on Six fluorine-Substituted Androgens, Potential Imaging Agents for Prostatic Cancer. J. Nucl. Med 1992, 33, 724-734. Zhou D. et al. Optimization of the preparation of fluorine-18-labeled steroid receptor ligands 16α-[¹⁸F]fluoroestradiol (FES), [¹⁸F]fluoro furanylnorprogesterone (FFNP), and 16β-[¹⁸F]fluoro-5α-dihydrotestosterone (FDHT) as radiopharmaceuticals. J. Label. Compd. Radiopharm. 2014, 5, 371-377 DOI: 10.1002/jlcr.3191 Dehdashti F. et al. Positron tomographic assessment of androgen receptors in prostatic carcinoma. Eur. J. Nucl. Med. Mol. Imaging 2005, 32, 344-350.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

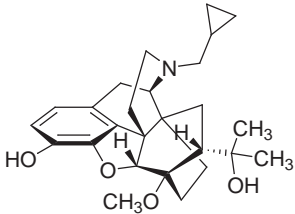
Product Number	Product	Order number / Unit
1919	TNB-Androstanone Precursor [¹⁸F]17β-Hydroxy-7α-fluoro-5α-androstan-3-one $C_{33}H_{39}NO_8S$ Molar Mass: 609.73 CAS-RN not yet assigned Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 7β-p-Toluenesulfonyloxy-17β-(4-nitrobenzoyloxy)-5α-androstan-3-one Synonyms: [¹⁸ F]17β-Hydroxy-7α-fluoro-5α-androstan-3-one precursor, [¹⁸ F]F-DHT precursor Literature: Labaree D.C. et al. 7α-Iodo and 7α-Fluoro Steroids as Androgen Receptor-Mediated Imaging Agents. J. Med. Chem. 1999, 42, 2021-2034. Labaree D.C. et al. 7α-Iodine-125-Iodo-5α-Dihydrotestosterone: A Radiolabeled Ligand for the Androgen Receptor. J. Nucl. Med. 1997, 38, 402-409.	Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
1926	FFNP precursor Precursor for [¹⁸F]FFNP ([¹⁸F]Fluoro furanyl norprogesterone) $C_{26}H_{32}O_8S$ Molar Mass: 504.59 [445379-33-9] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 19-Norpregn-4-ene-3,20-dione, 16,17-[[[(R)-2-furanylmethylene]bis(oxy)]]-21-[(methylsulfonyl)oxy]-, (16)-alpha Synonyms: 16α,17α-[(R)-(1'-α-Furylmethylidene)dioxy]- 21[(methyl)sulfonyl]oxy-19-norpregn-4-ene-3,20-dione; [¹⁸ F]FFNP precursor Literature: Zhou D. et al. Optimization of the preparation of fluorine-18-labeled steroid receptor ligands 16α-[¹⁸ F]fluoroestradiol (FES), [¹⁸ F]fluoro furanylnorprogesterone (FFNP), and 16β-[¹⁸ F]fluoro-5α-dihydrotestosterone (FDHT) as radiopharmaceuticals. J. Label. Compd. Radiopharm. 2014, 5, 371-377. Vijaykumar D. et al. An Efficient Route for the Preparation of a 21-Fluoro Progestin-16alpha,17alpha-Dioxolane, a High-Affinity Ligand for PET Imaging of the Progesterone Receptor. J. Org. Chem. 2002, 67, 4904-4910. Buckman B.O. et al. Fluorine-18-Labeled Progestin 16alpha,17alpha-Dioxolanes: Development of High-Affinity Ligands for the Progesterone Receptor with High in Vivo Target Site Selectivity. J. Med. Chem. 1995, 38, 328-337.	1926.0002: 2 mg per vial 1926.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

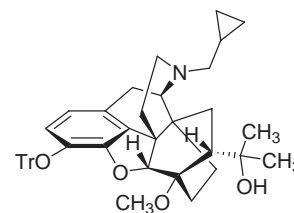
Product Number	Product	Order number / Unit
1928	<p>FFNP standard</p> <p>Reference standard for [¹⁸F]FFNP ([¹⁸F]Fluoro furanyl norprogesterone)</p> <p>C₂₅H₂₉FO₅ Molar Mass: 428.49</p> <p>[160388-33-0]</p> <p>Colourless to off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 19-Norpregn-4-ene-3,20-dione, 21-fluoro-16,17-[[<i>(R)</i>-(2-furanylmethylene)bis(oxy)]-, (16α)-</p> <p>Synonyms: 21-Fluoro-16α,17α-[[<i>(R)</i>-(1'-α-furylmethylidene)dioxy]-19-norpregn-4-ene-3,20-dione; Fluoro Furanyl Norprogesterone; 16α,17α-[[<i>(R)</i>-(1'-α-Furylmethylidene)dioxy]-21[fluoro]-oxy-19-norpregn-4-ene-3,20-dione; fluoro-19-norprogesterone-16α,17α-endo-furanyl acetal; 21-fluorofuranyl-norprogesterone; 19-Norpregn-4-ene-3,20-dione, 21-fluoro-16,17-[(2-furanylmethylene)bis(oxy)]-, [16α(<i>R</i>)]-, FFNP; [¹⁸F]FFNP standard</p> <p>Literature: Zhou D. et al. Optimization of the preparation of fluorine-18-labeled steroid receptor ligands 16α-[¹⁸F]fluoroestradiol (FES), [¹⁸F]fluoro furanylnorprogesterone (FFNP), and 16β-[¹⁸F]fluoro-5α-dihydrotestosterone (FDHT) as radiopharmaceuticals. J. Label. Compd. Radiopharm. 2014, 5, 371-377.</p> <p>Vijaykumar D. et al. An Efficient Route for the Preparation of a 21-Fluoro Progestin-16α,17α-Dioxolane, a High-Affinity Ligand for PET Imaging of the Progesterone Receptor. J. Org. Chem. 2002, 67, 4904-4910.</p> <p>Buckman B.O. et al. Fluorine-18-Labeled Progestin 16α,17α-Dioxolanes: Development of High-Affinity Ligands for the Progesterone Receptor with High in Vivo Target Site Selectivity. J. Med. Chem. 1995, 38, 328-337.</p>	<p>1928.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2000	<p>3-O-Trityl-6-O-desmethyl-diprenorphine Precursor for [¹¹C]Diprenorphine Nonselective opioid receptor antagonist $C_{44}H_{47}NO_4$ Molar Mass: 653.87 [157891-92-4] Colourless or nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-6-hydroxy-α,α-dimethyl-3-(triphenylmethoxy)-, (5α, 7α)</p> <p>Synonyms: TDDPN; TDPN</p> <p>Literature: Luthra S.K. et al. Automated radiosyntheses of [6-O-methyl-¹¹C]-diprenorphine and [6-O-methyl-¹¹C]buprenorphine from 3-O-trityl protected precursors. Appl. Radiat. Isot. 1994, 45, 857-873. Wester H.-J. et al. 6-O-(2-[¹⁸F]Fluoroethyl)-6-O-Desmethyl-diprenorphine ([¹⁸F]DPN): Synthesis, Biologic Evaluation, and Comparison with [¹¹C]DPN in Humans. J. Nucl. Med. 2000, 41, 1279-1286.</p>	<p>2000.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

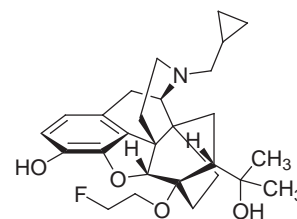
Product Number	Product	Order number / Unit
2010	<p>Diprenorphine hydrochloride Reference standard for [¹¹C]Diprenorphine Nonselective opioid receptor antagonist</p> <p>Controlled substance, license required in most countries. $C_{26}H_{36}ClNO_4$ Molar Mass: 462.02 [16808-86-9] Colourless or nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α,α-dimethyl-, (5α, 7α), hydrochloride</p> <p>Synonyms: DPN · HCl</p> <p>Literature: von Herz A. et al. Rezeptorbesetzung und pharmakologische Wirkung, dargestellt am Beispiel der Opiate. <i>Arzneim.-Forsch./Drug. Res.</i> 1977, 27, 1865-1867. Takemori A.E. et al. Studies on the quantitative antagonism of analgesics by naloxone and diprenorphine. <i>Eur. J. Pharmacol.</i> 1972, 20, 85-92. Marton J. et al. Herstellung von 6,14-Ethenomorphinan-Derivaten. <i>Liebigs Ann.</i> 1993, 915-919. Marton J. et al. Herstellung von 6,14-Ethenomorphinan-Derivaten. <i>Monatsh. für Chemie</i> 1994, 125, 1229-1239.</p>	<p>2010.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

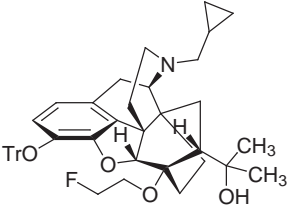
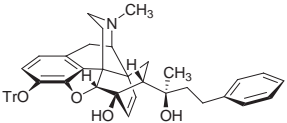
Product Number	Product	Order number / Unit
2020	<p>Diprenorphine Reference standard for [¹¹C]Diprenorphine Nonselective opioid receptor antagonist</p> <p>Controlled substance, license required in most countries. $C_{26}H_{35}NO_4$ Molar Mass: 425.56 [14357-78-9] Colourless or nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α,α-dimethyl-, (5α, 7α)</p> <p>Synonyms: DPN</p> <p>Literature: von Herz A. et al. Rezeptorbesetzung und pharmakologische Wirkung, dargestellt am Beispiel der Opiate. <i>Arzneim.-Forsch./Drug. Res.</i> 1977, 27, 1865-1867. Takemori A.E. et al. Studies on the quantitative antagonism of analgesics by naloxone and diprenorphine. <i>Eur. J. Pharmacol.</i> 1972, 20, 85-92. Marton J. et al. Herstellung von 6,14-Ethenomorphinan-Derivaten. <i>Liebigs Ann.</i> 1993, 915-919. Marton J. et al. Herstellung von 6,14-Ethenomorphinan-Derivaten. <i>Monatsh. für Chemie</i> 1994, 125, 1229-1239.</p>	<p>2020.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2030	3-O-Trityl-diprenorphine Reference standard for byproduct of [¹¹C]Diprenorphine synthesis $C_{45}H_{49}NO_4$ Molar Mass: 667.88 [157891-91-3] Colourless or nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-6-methoxy- α,α -dimethyl-3-(triphenylmethoxy)-, (5 α , 7 α) Synonyms: TDPN Literature: Luthra S.K. et al. Automated radiosyntheses of [6-O-methyl- ¹¹ C]-diprenorphine and [6-O-methyl- ¹¹ C]buprenorphine from 3-O-trityl protected precursors. Appl. Radiat. Isot. 1994, 45, 857-873.	2030.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

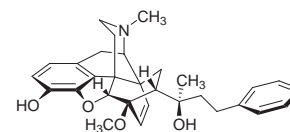


Product Number	Product	Order number / Unit
2040	6-O-Fluoroethyl-6-O-desmethyl-diprenorphine Reference standard for [¹⁸F]Fluoroethyl-diprenorphine Nonselective opioid receptor antagonist $C_{27}H_{36}FNO_4$ Molar Mass: 457.58 CAS-RN not yet assigned Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 90 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy- α,α -dimethyl-6-(2-fluoroethoxy)-, (5 α , 7 α) Synonyms: FETDPN Literature: Wester H.-J. et al. Synthesis, preclinical evaluation and first human study of [¹⁸ F]Diprenorphine ([¹⁸ F]DPN) for central opioid receptor imaging with PET. J. Nucl. Med. 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario Canada; 73P. Wester H.-J. et al. 6-O-(2-[¹⁸ F]Fluoroethyl)-6-O-Desmethyl-diprenorphine ([¹⁸ F]DPN): Synthesis, Biologic Evaluation, and Comparison with [¹¹ C]DPN in Humans. J. Nucl. Med. 2000, 41, 1279-1286.	2040.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

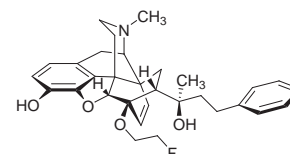


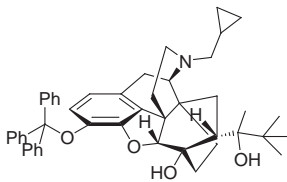
Product Number	Product	Order number / Unit
2050	<p>6-O-Fluoroethyl-6-O-desmethyl-3-O-trityl-diprenorphine Reference standard for byproduct of [¹⁸F]Fluoroethyl-diprenorphine synthesis</p> <p>C₄₆H₅₀FNO₄ Molar Mass: 699.89 CAS-RN not yet assigned Yellow solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra Chemical Name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-4,5-epoxy-18,19-dihydro-6-(2-fluoroethoxy)- 3-(triphenylmethoxy)-α,α-dimethyl-, 5(α, 7α)</p> <p>Synonyms: FEtTrDPN; 6-O-Fluoroethyl-6-O-desmethyl-3-O-trityl-DPN</p> <p>Literature: Wester H.-J. et al. Synthesis, preclinical evaluation and first human study of [¹⁸F]Diprenorphine ([¹⁸F]DPN) for central opioid receptor imaging with PET. J. Nucl. Med. 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario Canada; 73P.</p> <p>Wester H.-J. et al. 6-O-(2-[¹⁸F]Fluoroethyl)-6-O-Desmethyl-diprenorphine ([¹⁸F]DPN): Synthesis, Biologic Evaluation, and Comparison with [¹¹C]DPN in Humans. J. Nucl. Med. 2000, 41, 1279-1286.</p>	<p>2050.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2051	<p>3-O-Trityl-6-O-desmethyl-phenethyl-orvinol Precursor for [¹¹C]Phenethyl-orvinol</p> <p>C₄₈H₄₇NO₄ Molar Mass: 701.89 [1187551-69-4] Colourless to yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, -4,5-epoxy-6-hydroxy-α,17-dimethyl-, α-(2-phenylethyl)-3-(triphenylmethoxy)-, (5α, 7α)</p> <p>Synonyms: TDPEO</p> <p>Literature: Marton J. et al. Synthesis and evaluation of a full-agonist orvinol for PET-imaging of opioid receptors: [¹¹C]PEO J. Med. Chem. 2009, 52, 5586-5589.</p> <p>Schultz B.W. et al. Synthesis and evaluation of three structurally related ¹⁸F-labeled orvinols of different intrinsic activities: [¹⁸F]fluoroethyl-diprenorphine ([¹⁸F]FDPN), [¹⁸F]fluoroethyl-buprenorphine ([¹⁸F]FBPN and [¹⁸F]fluoroethyl-phenethyl-orvinol ([¹⁸F]FPEO. J. Med. Chem. 2014, 57, 5464-5469.</p>	<p>2051.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

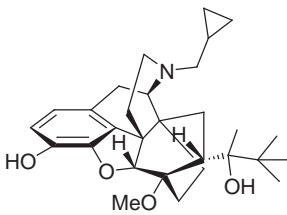
Product Number	Product	Order number / Unit
2052	Phenethyl-orvinol Reference standard for [¹¹C]Phenethyl-orvinol $C_{30}H_{35}NO_4$ Molar Mass: 473.60 [14521-98-3] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, -4,5-epoxy-6-hydroxy- α ,17-dimethyl-, α -(2-phenylethyl)-3-(triphenylmethoxy)-, (5 α , 7 α) Synonyms: PEO Literature: Marton J. et al. Synthesis and evaluation of a full-agonist orvinol for PET-imaging of opioid receptors: [¹¹ C]PEO J. Med. Chem. 2009, 52, 5586-5589. Hjørnevik T. et al. Spinal long-term potentiation is associated with reduced opioid neurotransmission in the rat brain. Clin. Physiol. Funct. Imaging 2010, 30, 285-293.	2052.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

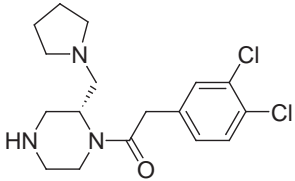
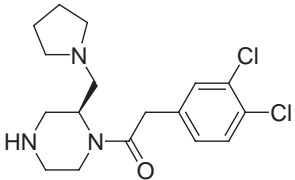


Product Number	Product	Order number / Unit
2053	6-O-(2-Fluoroethyl)-6-O-desmethyl-phenethyl-orvinol Reference standard for [¹⁸F]FE-PEO $C_{31}H_{36}FNO_4$ Molar Mass: 505.62 CAS-RN not yet assigned Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, -4,5-epoxy-6-(2-fluoroethoxy)- α ,17-dimethyl-, α -(2-phenylethyl)-3-(triphenylmethoxy)-, (5 α , 7 α) Synonyms: FE-PEO Literature: Marton J. et al. Design and synthesis of an 18F-labeled version of phenethyl-orvinol ([¹⁸ F]FE-PEO) for PET-imaging of opioid receptors. Molecules 2012, 17, 11554-11569. Riss P.J. et al. Synthesis and evaluation of ¹⁸ F-FE-PEO in rodents: An ¹⁸ F-labeled full agonist for opioid receptor imaging. J. Nucl. Med. 2013, 54, 299-305. Schultz B. W. et al. Synthesis and evaluation of three structurally related ¹⁸ F-labeled orvinols of different intrinsic activities: [¹⁸ F]fluoroethyl-diprenorphine ([¹⁸ F]FDPN), [¹⁸ F]fluoroethyl-buprenorphine ([¹⁸ F]FBPN and [¹⁸ F]fluoroethyl-phenethyl-orvinol ([¹⁸ F]FPEO). J. Med. Chem. 2014, 57, 5464-5469.	2053.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

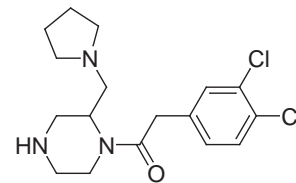


Product Number	Product	Order number / Unit
2055	<p>3-O-Trityl-6-O-desmethyl-buprenorphine Precursor for 6-O-[¹¹C]-buprenorphine</p> <p>C₄₇H₅₃NO₄ Molar Mass: 695.93 [157891-93-5] Colourless to yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropyl-methyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19- dihydro-6-hydroxy-α-methyl-3-(triphenylmethoxy)-, (5α, 7α(S))</p> <p>Synonymes: TDBPN</p> <p>Literature: Luthra S.K. et al. Automated radiosyntheses of [6-O-methyl-¹¹C]-diprenorphine and [6-O-methyl-¹¹C]buprenorphine from 3-O-trityl protected precursors. Appl. Radiat. Isot. 1994, 45, 857-873.</p>	<p>2055.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

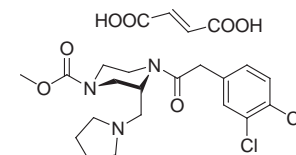
Product Number	Product	Order number / Unit
2056	<p>Buprenorphine hydrochloride Reference standard for 6-O-[¹¹C]-buprenorphine</p> <p>Controlled substance, license required in most countries. $C_{29}H_{41}NO_4 \cdot HCl$ Molar Mass: 504.10 [53152-21-9] Colourless to off-white crystalline powder packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index names: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride (1:1); 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride, [5α,7α(S)]-; 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride, (αS,5α,7α)- Synonymes: Buprederm; Buprenex Literature: Luthra S.K. et al. Automated radiosyntheses of [6-O-methyl-¹¹C]-diprenorphine and [6-O-methyl-¹¹C]buprenorphine from 3-O-trityl protected precursors. Appl. Radiat. Isot. 1994, 45, 857-873. Luthra S.K. et al. Preparation of [¹¹C]buprenorphine - A potential radioligand for the study of the opiate receptor system in vivo. Int. J. Rad. Appl. Instrum. A. 1987, 38, 65-6. Lever J.R. et al. Facile synthesis of [¹¹C]buprenorphine for positron emission tomographic studies of opioid receptors. J. Rad. Appl. Instrum. A, 1990, 41, 745-52. Shiue C.Y. et al. A comparison of the brain uptake of N-(cyclopropyl[¹¹C]methyl)norbuprenorphine ([¹¹C]buprenorphine) and N-(cyclopropyl[¹¹C]methyl)nordiprenorphine ([¹¹C]diprenorphine) in baboon using PET. Int. J. Rad. Appl. Instrum. B, 1991, 18, 281-288.</p>	<p>2056.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

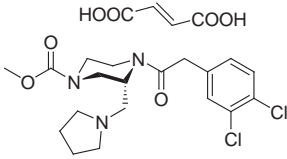
Product Number	Product	Order number / Unit
2060	<p>(S)-(-)-Normethylcarbamoyl-GR 103545 Precursor for (R)-(-)-[¹¹C]-GR 103545</p> <p>C₁₇H₂₃Cl₂N₃O Molar Mass: 356.29 [260992-21-0] Yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: Ethanone, 2-(3,4-dichlorophenyl)-1-[(2S)-2-(1-pyrrolidinylmethyl)-1-piperaziny]-</p> <p>Synonyms: (2S)-2-(3,4-Dichlorophenyl)-1-(2-pyrrolidin-1-ylmethyl-piperazine-1-yl)-ethanon; (2S)-1-[(3,4-Dichlorophenyl)acetyl]-2-(1-pyrrolidinylmethyl)piperazine</p> <p>Literature: Ravert H.T. et al. [¹¹C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹C-GR 103545, a Radiotracer for Imaging κ-Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schultz B.W. et al. A New Method for Radiosynthesis of ¹¹C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74. Nabulsi N.B. et al. [¹¹C]GR103545: novel one-pot radiosynthesis with high specific activity. Nucl. Med. Biol. 2011, 38, 215-21.</p>	<p>2060.0001: 1 mg per vial 2060.0003: 3 mg per vial 2060.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2061	<p>(R)-(+)-Normethylcarbamoyl-GR 103545 Precursor for (S)-(+)-[¹¹C]-GR 103545</p> <p>C₁₇H₂₃Cl₂N₃O Molar Mass: 356.29 [199470-02-5] Yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: Piperazine, 1-[(3,4-dichlorophenyl)acetyl]-2-(1-pyrrolidinylmethyl)-, (2R)</p> <p>Synonyms: (2R)-2-(3,4-Dichlorophenyl)-1-(2-pyrrolidin-1-ylmethyl-piperazine-1-yl)-ethanon; (2R)-1-[(3,4-Dichlorophenyl)acetyl]-2-(1-pyrrolidinylmethyl)piperazine</p> <p>Literature: Ravert H.T. et al. [¹¹C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹C-GR 103545, a Radiotracer for Imaging κ-Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schultz B.W. et al. A New Method for Radiosynthesis of ¹¹C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74.</p>	<p>2061.0001: 1 mg per vial 2061.0003: 3 mg per vial 2061.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

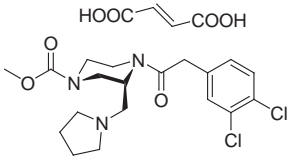
Product Number	Product	Order number / Unit
2062	Normethylcarbamoyl-GR 89696 Precursor for [¹¹C]-GR 89696 $C_{17}H_{23}Cl_2N_3O$ Molar Mass: 356.29 [126766-48-1] Yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Ethanone, 2-(3,4-dichlorophenyl)-1-[2-(1-pyrrolidinylmethyl)-1-piperazinyl]- Synonyms: 2-(3,4-Dichlorophenyl)-1-(2-pyrrolidin-1-ylmethyl-piperazine-1-yl)-ethanon; 1-[(3,4-Dichlorophenyl)acetyl]-2-(1-pyrrolidinylmethyl)piperazine; Descarbamate-GR 89696 Literature: Ravert H.T. et al. [¹¹ C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹ C-GR 103545, a Radiotracer for Imaging κ -Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ -Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schoultz B.W. et al. A New Method for Radiosynthesis of ¹¹ C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹ C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74.	2062.0001: 1 mg per vial 2062.0003: 3 mg per vial 2062.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

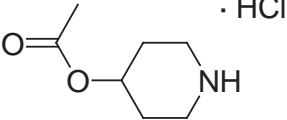


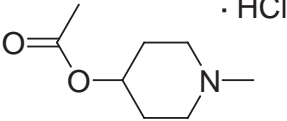
Product Number	Product	Order number / Unit
2070	GR 89696 fumarate Reference standard for (R)-(-)-[¹¹C]GR 103545 and (S)-(+)-[¹¹C]GR 103545 Highly potent and selective κ opioid receptor agonist $C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$ Molar Mass: 530.40 [126766-32-3] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 1-Piperazinecarboxylic acid, 4-[(3,4-dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-, methyl ester, (E)-2-butenedioate (1:1) Synonyms: GR 89696 fumarate salt; 4-[(3,4-dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate Literature: Ravert H.T. et al. [¹¹ C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹ C-GR 103545, a Radiotracer for Imaging κ -Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ -Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schoultz B.W. et al. A New Method for Radiosynthesis of ¹¹ C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹ C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74.	2070.0001: 1 mg per vial 2070.0005: 5 mg per vial 2070.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

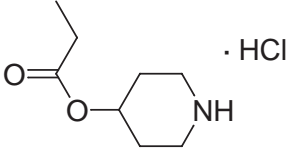
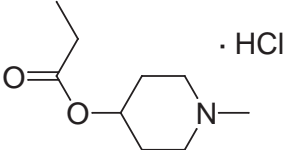


Product Number	Product	Order number / Unit
2071	<p>(R)-(-)-GR103545 fumarate Reference standard for (R)-(-)-[¹¹C]GR103545 Active enantiomer of the selective kappa opioid receptor agonist GR89696</p> <p>$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$ Molar Mass: 530.40 [126766-43-6] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: 1-Piperazinecarboxylic acid, 4-[(3,4-dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-, methyl ester, (R)-, (E)-2-butenedioate (1:1) Synonyms: (R)-(-)-GR103545 fumarate salt; (R)-4-[(3,4-dichlorophenyl)acetyl]- 3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate Literature: Ravert H.T. et al. [¹¹C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹C-GR 103545, a Radiotracer for Imaging κ-Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schultz B.W. et al. A New Method for Radiosynthesis of ¹¹C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74.</p>	<p>2071.0001: 1 mg per vial 2071.0005: 5 mg per vial 2071.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

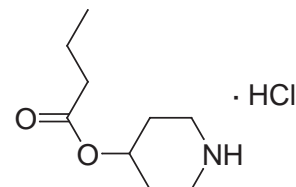
Product Number	Product	Order number / Unit
2072	<p>(S)-(+)-GR89696 fumarate Reference standard for (S)-(+)-[¹¹C]GR89696 Less active enantiomer of the selective kappa opioid receptor agonist GR89696</p> <p>$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$ Molar Mass: 530.40 [150133-21-4] Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: 1-Piperazinecarboxylic acid, 4-[(3,4-dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-, methyl ester, (S)-, (E)-2-butenedioate (1:1) Synonyms: (S)-(+)-GR89696 fumarate salt; (S)-4-[(3,4-dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate Literature: Ravert H.T. et al. [¹¹C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53. Talbot P.S. et al. ¹¹C-GR 103545, a Radiotracer for Imaging κ-Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494. Naylor A. et al. A Potent New class of κ-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino)methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083. Schultz B.W. et al. A New Method for Radiosynthesis of ¹¹C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [¹¹C]GR 103545. The Open Med. Chem. J. 2008, 2, 72-74.</p>	<p>2072.0001: 1 mg per vial 2072.0005: 5 mg per vial 2072.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2110	Acetic acid piperidin-4-yl ester hydrochloride Precursor for [¹¹C]AMP $C_7H_{13}NO_2 \cdot HCl$ Molar Mass: 179.64 [94886-04-1] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 4-Piperidinol acetate, hydrochloride Synonyms: 4-Acetoxy-piperidine, hydrochloride; 4-Piperidinyl acetate, hydrochloride; PA · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Irie T. et al. Design and Evaluation of Radioactive Acetylcholine Analogs for Mapping Brain Acetylcholinesterase (AChE) In Vivo. Nucl. Med. Biol. 1994, 21, 801-808.	2110.0001: 1 mg per vial Please inquire for customized filling and bulk quantities. 

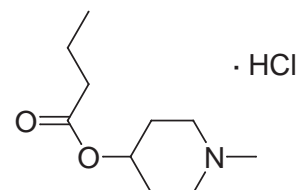
Product Number	Product	Order number / Unit
2120	Acetic acid 1-methyl-piperidin-4-yl ester hydrochloride Reference standard for [¹¹C]AMP $C_8H_{15}NO_2 \cdot HCl$ Molar Mass: 193.67 [58931-63-8] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 4-Piperidinol, 1-methyl-, acetate, hydrochloride Synonyms: 1-Methylpiperidinyl acetate, hydrochloride; MPA · HCl; PMA · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Irie T. et al. Design and Evaluation of Radioactive Acetylcholine Analogs for Mapping Brain Acetylcholinesterase (AChE) In Vivo. Nucl. Med. Biol. 1994, 21, 801-808.	2120.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
2130	<p>Propionic acid piperidin-4-yl ester hydrochloride Precursor for [¹¹C]PMP</p> <p>C₈H₁₅NO₂ · HCl Molar Mass: 193.67 [219859-83-3] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Piperidinol, propionate, hydrochloride Synonymes: PP · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Irie T. et al. Design and Evaluation of Radioactive Acetylcholine Analogs for Mapping Brain Acetylcholinesterase (AChE) In Vivo. Nucl. Med. Biol. 1994, 21, 801-808. Snyder S.E. et al. Synthesis of 1-[¹¹C]Methylpiperidin-4-yl Propionate ([¹¹C]PMP) for in Vivo Measurements of Acetylcholinesterase Activity. Nucl. Med. Biol. 1998, 25, 751-754.</p>	<p>2130.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2140	<p>Propionic acid 1-methyl-piperidin-4-yl ester hydrochloride Reference standard for [¹¹C]PMP</p> <p>C₉H₁₇NO₂ · HCl Molar Mass: 207.7 [64219-77-8] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Piperidinol, 1-methyl-, propanoate, hydrochloride Synonymes: PMP · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Irie T. et al. Design and Evaluation of Radioactive Acetylcholine Analogs for Mapping Brain Acetylcholinesterase (AChE) In Vivo. Nucl. Med. Biol. 1994, 21, 801-808. Snyder S.E. et al. Synthesis of 1-[¹¹C]Methylpiperidin-4-yl Propionate ([¹¹C]PMP) for in Vivo Measurements of Acetylcholinesterase Activity. Nucl. Med. Biol. 1998, 25, 751-754.</p>	<p>2140.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

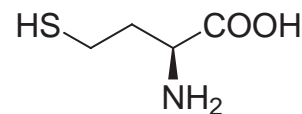
Product Number	Product	Order number / Unit
2150	Butyric acid piperidin-4-yl ester hydrochloride Precursor for [¹¹C]BMP $C_9H_{17}NO_2 \cdot HCl$ Molar Mass: 207.7 CAS-RN not yet assigned Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 4-Piperidinol, butyrate, hydrochloride Synonyms: BP · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Kikuchi T. et al. Piperidinyl and pyrrolidinyl butyrates as radiotracers for measuring cerebral butyrylcholinesterase activity evaluation in rats. J. Labelled Compd. Radiopharm. 2001, 44, Suppl. 1, 322.	2150.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.



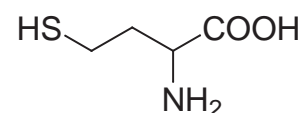
Product Number	Product	Order number / Unit
2160	Butyric acid 1-methyl-piperidin-4-yl ester hydrochloride Reference standard for [¹¹C]BMP $C_{10}H_{19}NO_2 \cdot HCl$ Molar Mass: 221.72 CAS-RN not yet assigned Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 4-Piperidinol, 1-methyl-, butyrate, hydrochloride Synonyms: BMP · HCl Literature: Nguyen T.B. et al. Syntheses of carbon-11 labeled piperidine esters as potential in vivo substrates for acetylcholinesterase. Nucl. Med. Biol. 1998, 25, 761-768. Iyo M. et al. Measurement of acetylcholinesterase by positron emission tomography in the brains of healthy controls and patients with Alzheimer's disease. Lancet 1997, 349, 1805-1809. Kikuchi T. et al. Piperidinyl and pyrrolidinyl butyrates as radiotracers for measuring cerebral butyrylcholinesterase activity evaluation in rats. J. Labelled Compd. Radiopharm. 2001, 44, Suppl. 1, 322.	2160.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

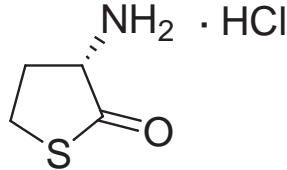


Product Number	Product	Order number / Unit
2200	L-Homocysteine Precursor for L-[¹¹C]Methyl-methionine $C_4H_9NO_2S$ Molar Mass: 135.18 [6027-13-0] Colourless or nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 90 % Certificates: CoA; ¹ H NMR spectrum; HPLC Chemical Name: CA index name: Butyric acid, 2-amino-4-mercapto-, L- Synonymes: (S)-Homocysteine, (S)-2-Amino-4-mercaptobutanoic acid; Butanoic acid, 2-amino-4-mercapto-, (S)- Literature: Schmitz F. et al. Fast Routine Production of L-[¹¹ C-Methyl]-methionine with Al ₂ O ₃ /KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl- ¹¹ C. Eur. J. Nucl. Med. 1976, 1, 11-14.	2200.0001: 1 mg per vial 2200.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

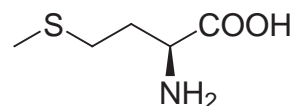


Product Number	Product	Order number / Unit
2205	D,L-Homocysteine Precursor for D,L-[¹¹C]methyl-methionine (Analytical standard for validation of L-[¹¹C]methyl-methionine synthesis) $C_4H_9NO_2S$ Molar Mass: 135.18 [454-29-5] Colourless or nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Butyric acid, 2-amino-4-mercapto-, DL Synonymes: (RS)-Homocysteine; (RS)-2-Amino-4-mercaptobutanoic acid; Butanoic acid, 2-amino-4-mercapto-, (RS) Literature: Schmitz F. et al. Fast Routine Production of L-[¹¹ C-Methyl]-methionine with Al ₂ O ₃ /KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl- ¹¹ C. Eur. J. Nucl. Med. 1976, 1, 11-14.	Please inquire for customized filling and bulk quantities.

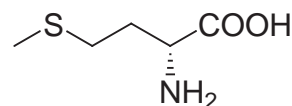


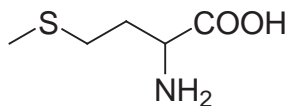
Product Number	Product	Order number / Unit
2210	<p>L-Homocysteine thiolactone hydrochloride Precursor for L-[¹¹C]Methyl-methionine, - ethionine, and -propionine</p> <p>C₄H₇NOS · HCl Molar Mass: 153.63 [31828-68-9] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2(3H)-Thiophenone, 3-aminodihydro-, hydrochloride, (3S)- Synonymes: 2(3H)-Thiophenone, 3-aminodihydro-, hydrochloride, (S)-; 2(3H)-Thiophenone, 3-aminodihydro-, hydrochloride, L- Literature: Ishiwata K. et al. Carbon-11 labeled ethionine and propionine as tumor detecting agents. Ann. Nucl. Med. 1997, 11, 115-122. Schmitz F. et al. Fast Routine Production of L-[¹¹C-Methyl]-methionine with Al₂O₃/KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl-¹¹C. Eur. J. Nucl. Med. 1976, 1, 11-14.</p>	<p>2210.0001: 1 mg per vial 2210.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

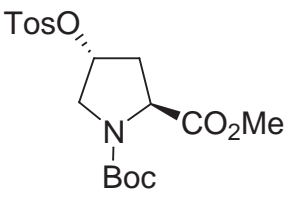
Product Number	Product	Order number / Unit
2220	L-Methionine Reference standard for L-[¹¹C]Methyl-methionine $C_5H_{11}NO_2S$ Molar Mass: 149.21 [63-68-3] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Butyric acid, 2-amino-4-(methylthio)-, L- Synonymes: (S)-2-Amino-4-(methylmercapto)butanoic acid; S-Methyl-L-homocysteine; Methionine; Met Literature: Schmitz F. et al. Fast Routine Production of L-[¹¹ C-Methyl]-methionine with Al ₂ O ₃ /KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl- ¹¹ C. Eur. J. Nucl. Med. 1976, 1, 11-14.	2220.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

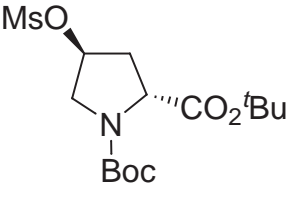


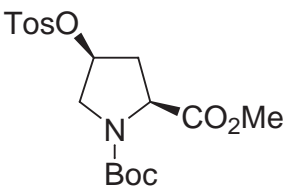
Product Number	Product	Order number / Unit
2229	D-Methionine Reference standard for D-[¹¹C]Methyl-methionine $C_5H_{11}NO_2S$ Molar Mass: 149.21 [348-67-4] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Butyric acid, 2-amino-4-(methylthio)-, D- Synonymes: (R)-2-Amino-4-(methylmercapto)butanoic acid; R-Methyl-L-homocysteine; D-Methionine; D-Met Literature: Schmitz F. et al. Fast Routine Production of L-[¹¹ C-Methyl]-methionine with Al ₂ O ₃ /KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl- ¹¹ C. Eur. J. Nucl. Med. 1976, 1, 11-14.	2229.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

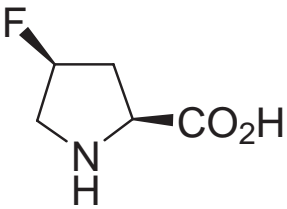


Product Number	Product	Order number / Unit
2230	<p>D,L-Methionine Reference standard for D,L-[¹¹C]Methyl-methionine</p> <p>C₅H₁₁NO₂S Molar Mass: 149.21 [59-51-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Butyric acid, 2-amino-4-(methylthio)-, Synonymes: 2-Amino-4-(methylmercapto)butanoic acid; Methylhomocysteine; D,L-Methionine; D,L-Met Literature: Schmitz F. et al. Fast Routine Production of L-[¹¹C-Methyl]-methionine with Al₂O₃/KF. Appl. Radiat. Isot. 1995, 46, 893-897. Comar D. et al. Labelling and Metabolism of Methionine-Methyl-¹¹C. Eur. J. Nucl. Med. 1976, 1, 11-14.</p>	<p>2230.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

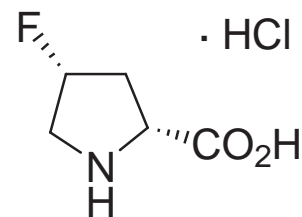
Product Number	Product	Order number / Unit
2300	<p>N-Boc-trans-4-tosyloxy-L-proline methyl ester Precursor for cis-4-[¹⁸F]Fluoro-L-proline</p> <p>C₁₈H₂₅NO₇S Molar Mass: 399.45 [88043-21-4] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1,2-pyrrolidinedicarboxylic acid, 4-(((4-methylphenyl)-sulfonyl(oxy)-1-(1,1-dimethylethyl)-2-methyl ester, (2S, trans) Synonymes: N-tert-butyloxycarbonyl-O-p-toluenesulfonyl-L-proline methyl ester; N-tert-butyloxycarbonyl-trans-4-p-tolylsulfonyloxy-L-proline methyl ester; trans-BTPME Literature: Hamacher K. et al. [¹⁸F]fluoroproline: A potential tracer for collagen synthesis. Radiosynthesis and biological evaluation. 43rd Annual Meeting of the Society of Nuclear Medicine, Denver, Colorado, USA, June 3-5, 1996. J. Nucl. Med. 1996, 37, 41P. Jones H. A. et al. External monitoring of ¹⁸F-fluoroproline uptake in a rabbit model of pulmonary fibrosis. Annual Congress of the European Respiratory Society, Berlin, Germany, September 20-24, 1977, European Respiratory Journal Supplement. 1977, 10, 323S-324S. Gupta N. C. et al. Feasibility study for PET imaging of pulmonary fibrosis with cis-4-[¹⁸F]fluoro-L-proline (FP). J. Nucl. Med. 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario, Canada P116-P117. Mazza S. M. A Semi-Automatic Synthesis of cis-4-[¹⁸F]fluoro-L-proline using the General Electric FDG Microlab. J. Nucl. Med. 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario, Canada P144.</p>	<p>2300.0016: 16 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2301	<p>N-Boc-trans-4-mesyloxy-D-proline tert-butyl ester Precursor for cis-4-[¹⁸F]Fluoro-D-proline</p> <p>C₁₅H₂₇NO₇S Molar Mass: 365.44 CAS-RN not yet assigned Colourless solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: 1,2-Pyrrolidinedicarboxylic acid, 4-[(methylsulfonyl)oxy]-, 1,2-bis(1,1-dimethylethyl) ester, (2R,4S)- Synonymes: N-tert-butyloxycarbonyl-O-p-methanesulfonyl-D-proline tert-butyl ester; N-tert-butyloxycarbonyl-trans-4-p-methylsulfonyloxy-D-proline tert-butyl ester; (2R,4S)-Methanesulfonyloxy-pyrrolidine-1,2-dicarboxylic acid di-tert-butyl ester Literature: no literature reference available</p>	<p>2301.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

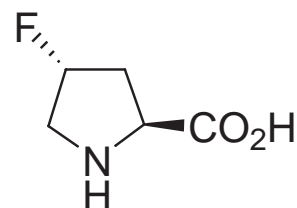
Product Number	Product	Order number / Unit
2310	N-Boc-cis-4-tosyloxy-L-proline methyl ester Precursor for trans-4-[¹⁸F]Fluoro-L-proline $C_{18}H_{25}NO_7S$ Molar Mass: 399.45 CAS-RN not yet assigned Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: 1,2-pyrrolidinedicarboxylic acid, 4-(((4-methyl-phenyl)sulfonyl(oxy(-1-(1,1-dimethylethyl)-2-methyl ester, (2S,4S)-cis Synonyms: cis-BTPME Literature: Hamacher K. et al. Synthesis of N.C.A. cis- and trans-4-[¹⁸ F]Fluoro-L-proline, radiotracers for PET-investigation of disordered Matrix protein synthesis. J. Labelled Compd. Radiopharm. 1999, 42, 1135-1144.	2310.0016: 16 mg per vial Please inquire for customized filling and bulk quantities. 

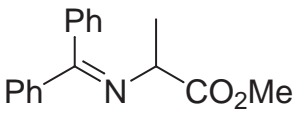
Product Number	Product	Order number / Unit
2320	cis-4-Fluoro-L-proline Reference standard for cis-[¹⁸F]Fluoro-L-proline $C_5H_8FNO_2$ Molar Mass: 133.12 [2438-57-5] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: L-Proline, 4-fluoro-, (4S)- Synonyms: (2S,4S)-4-Fluoroproline; cis-4-Fluoroproline Literature: Hamacher K. et al. Synthesis of N.C.A. cis- and trans-4-[¹⁸ F]Fluoro-L-proline, radiotracers for PET-investigation of disordered matrix protein synthesis. J. Labelled Compd. Radiopharm. 1999, 42, 1135-1144.	2320.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

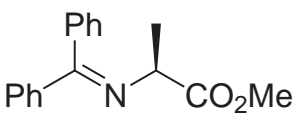
Product Number	Product	Order number / Unit
2321	cis-4-Fluoro-D-proline hydrochloride Reference standard for cis-4-[¹⁸F]Fluoro-D-proline $C_5H_9ClFNO_2$ Molar Mass: 169.58 [913820-71-0] (free amino acid) Colourless solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: D-Proline, 4-fluoro-, (4R)-, hydrochloride salt Synonyms: (2R,4R)-4-Fluoroproline hydrochloride salt; cis-4-Fluoro-D-proline hydrochloride salt; (2R,4R)-4-Fluoro-pyrrolidine-2-carboxylic acid hydrochloride salt Literature: no literature reference available	2321.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

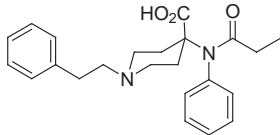


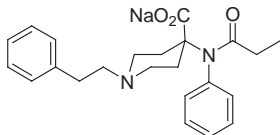
Product Number	Product	Order number / Unit
2330	trans-4-Fluoro-L-proline Reference standard for trans-[¹⁸F]Fluoro-L-proline $C_5H_8FNO_2$ Molar Mass: 133.12 [2507-61-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: L-Proline, 4-fluoro-, (4R)- Synonyms: (2S,4R)-4-Fluoroproline; trans-4-Fluoroproline Literature: Hamacher K. et al. Synthesis of N.C.A. cis- and trans-4-[¹⁸ F]Fluoro-L-proline, radiotracers for PET-investigation of disordered matrix protein synthesis. J. Labelled Compd. Radiopharm. 1999, 42, 1135-1144.	2330.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

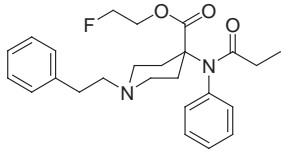
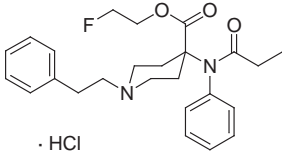


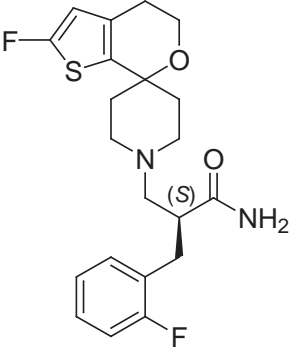
Product Number	Product	Order number / Unit
2340	<p>rac [¹¹C]-AIB precursor Precursor for [¹¹C]-AIB (α-Aminoisobutyric acid) $C_{17}H_{17}NO_2$ Molar Mass: 267.33 [115134-32-2] (S-AIB-precursor) Colourless oil packaged in glass vials. Purity: > 90% Certificates: CoA; ¹H NMR spectrum Chemical Name: Methyl N-(diphenylmethylene)alaninate Synonyms: N-Benzhydrylidenealanine methyl ester; methyl 2-(benzhydrylidene)alaninate; methyl alanine benzophenone imine; methyl-N-(diphenylmethylene)alaninate Literature: Kato K. et al. An efficient and expedient method for the synthesis of ¹¹C-labeled α-aminoisobutyric acid: A tumor imaging agent potentially useful for cancer diagnosis. Bioorg. Med. Chem. Lett. 2011, 21, 2437-2440.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

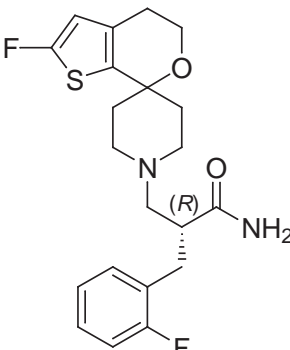
Product Number	Product	Order number / Unit
2342	<p>S-[¹¹C]-AIB precursor Precursor for [¹¹C]-AIB (α-Aminoisobutyric acid) $C_{17}H_{17}NO_2$ Molar Mass: 267.33 [115134-32-2] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: Methyl N-(diphenylmethylene)alaninate Synonyms: Methyl (S)-2-(diphenylmethylideneamino)propanoate, alanine methyl ester benzophenone imine Literature: Kato K. et al. An efficient and expedient method for the synthesis of ¹¹C-labeled α-aminoisobutyric acid: A tumor imaging agent potentially useful for cancer diagnosis. Bioorg. Med. Chem. Lett. 2011, 21, 2437-2440.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

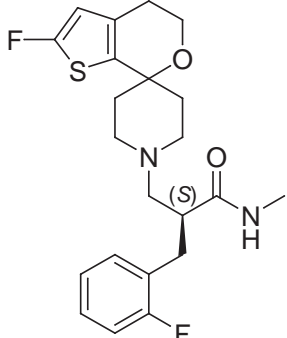
Product Number	Product	Order number / Unit
2390	Desmethylocarfentanil acid Precursor for [¹¹C]Carfentanil $C_{23}H_{28}N_2O_3$ Molar Mass: 380.48 [186022-53-7] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 4-Piperidinecarboxylic acid, 4-[(1-oxopropyl)phenylamino]-1-(2-phenylethyl)- Synonyms: desmethyl-Caf; desmethyl-CFN Literature: Dannals R. et al. Radiosynthesis of an Opiate Receptor Binding Radiotracer: [¹¹ C]Carfentanyl. Int. J. Appl. Radiat. Isot. 1985, 36, 303-306. Frost J.J. et al. Comparison of [¹¹ C]diprenorphine and [¹¹ C]carfentanyl binding to opiate receptors in humans by positron emission tomography. J. Cereb. Blood Flow Metab. 1990, 10, 484-492. Jewett D. M. A simple synthesis of [¹¹ C]carfentanil using an extraction disk instead of HPLC. Nucl. Med. Biol. 2001, 28, 733-734. Studenov A.R. et al. Efficient In-Loop Synthesis of High Specific Radioactivity [¹¹ C]Carfentanil. J. Labelled Compd. Radiopharm. 2003, 46, 837-842.	2390.0001: 1 mg per vial Please inquire for customized filling and bulk quantities. 

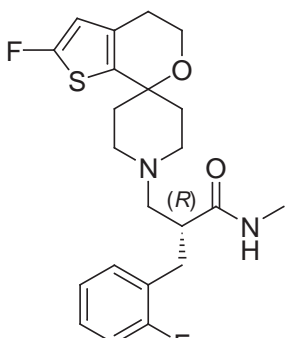
Product Number	Product	Order number / Unit
2400	Desmethylocarfentanil, sodium salt Precursor for [¹¹C]Carfentanil $C_{23}H_{27}N_2O_3Na$ Molar Mass: 402.46 [98598-82-4] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 4-Piperidinecarboxylic acid, 4-[(1-oxopropyl)phenylamino]-1-(2-phenylethyl), sodium salt Synonyms: Sodium Desmethyl carfentanil Literature: Dannals R. et al. Radiosynthesis of an Opiate Receptor Binding Radiotracer: [¹¹ C]Carfentanyl. Int. J. Appl. Radiat. Isot. 1985, 36, 303-306. Frost J.J. et al. Comparison of [¹¹ C]diprenorphine and [¹¹ C]carfentanyl binding to opiate receptors in humans by positron emission tomography. J. Cereb. Blood Flow Metab. 1990, 10, 484-492. Jewett D. M. A simple synthesis of [¹¹ C]carfentanil using an extraction disk instead of HPLC. Nucl. Med. Biol. 2001, 28, 733-734. Studenov A.R. et al. Efficient In-Loop Synthesis of High Specific Radioactivity [¹¹ C]Carfentanil. J. Labelled Compd. Radiopharm. 2003, 46, 837-842.	2400.0001: 1 mg per vial Please inquire for customized filling and bulk quantities. 

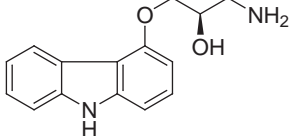
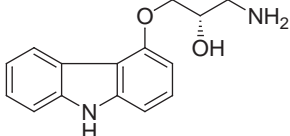
Product Number	Product	Order number / Unit
2420	Fluoroethyl-Carfentanil Reference standard for [¹⁸F]Fluoroethylcarfentanil $C_{25}H_{31}FN_2O_3$ Molar Mass: 426.52 [904892-57-5] Yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 4-Piperidinecarboxylic acid, 4-[(1-oxopropyl)phenylamino]-1-(2-phenylethyl)-, 2-fluoroethyl ester Synonyms: 2-Fluoroethylcarfentanil Literature: Henriksen G. et al. Synthesis of [¹⁸ F]fluoroalkyl esters of carfentanil. J. Labelled Compd. Radiopharm. 2005, 48, 771-779. Wadsak W. et al. Preparation and radiosynthesis of [¹⁸ F]FE@CFN (2-[¹⁸ F]fluoroethyl- 4-[N-(1-oxopropyl)-N-phenylamino]-1-(2-phenylethyl)-4-piperidinecarboxylate): a potential mu-opioid receptor imaging agent. Radiochim. Acta 2007, 95, 33-38.	2420.0010 10 mg per vial Please inquire for customized filling and bulk quantities.
		
2421	Fluoroethyl-Carfentanil hydrochloride Reference standard for [¹⁸F]Fluoroethylcarfentanil $C_{25}H_{31}FN_2O_3 \cdot HCl$ Molar Mass: 462.98 [1007840-96-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 4-Piperidinecarboxylic acid, 4-[(1-oxopropyl)phenylamino]-1-(2-phenylethyl)-, 2-fluoroethyl ester, hydrochloride (1:1) Synonyms: 2-Fluoroethylcarfentanil, hydrochloride salt Literature: Henriksen G. et al. Synthesis of [¹⁸ F]fluoroalkyl esters of carfentanil. J. Labelled Compd. Radiopharm. 2005, 48, 771-779. Wadsak W. et al. Preparation and radiosynthesis of [¹⁸ F]FE@CFN (2-[¹⁸ F]fluoroethyl- 4-[N-(1-oxopropyl)-N-phenylamino]-1-(2-phenylethyl)-4-piperidinecarboxylate): a potential mu-opioid receptor imaging agent. Radiochim. Acta 2007, 95, 33-38.	2421.0010 10 mg per vial Please inquire for customized filling and bulk quantities.
		

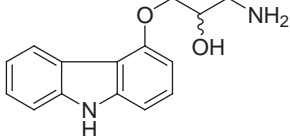
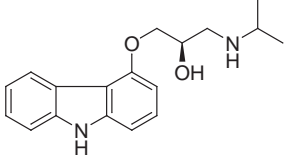
Product Number	Product	Order number / Unit
2450	<p>(S)-FPSPPA</p> <p>Precursor for (S)-[¹¹C]-Methyl-FPSPPA</p> <p>2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>C₂₁H₂₄F₂N₂O₂S Molar Mass: 406.49</p> <p>[1283095-64-6]</p> <p>White solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: Spiro[piperidine-4,7'-[7H]thieno[2,3-c]pyran]-1-propanamide, 2'-fluoro-α-[(2-fluorophenyl)methyl]-4',5'-dihydro-, (αS)-</p> <p>Synonyms: (2S)-2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>Literature: Pike V. et al. Synthesis and Evaluation of Radioligands for Imaging Brain Nociceptin/Orphanin FQ Peptide (NOP) Receptors with Positron Emission Tomography, J. Med. Chem. 2011, 54, 2687-2700. Pedregal C. et al. Development of LC-MS/MS-Based Receptor Occupancy Tracers and Positron Emission Tomography Radioligands for the Nociceptin/Orphanin FQ (NOP) Receptor, J. Med. Chem. 2012, 55, 4955-4967. Kimura Y. et al. Brain and Whole-Body Imaging in Rhesus Monkeys of ¹¹C-NOP-1A, a Promising PET Radioligand for Nociceptin/Orphanin FQ Peptide Receptors, J. Nucl. Med. 2011, 52, 1638-1645.</p>	<p>2450.0100: 100 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

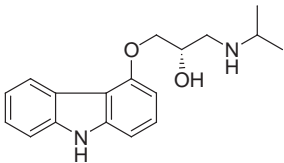
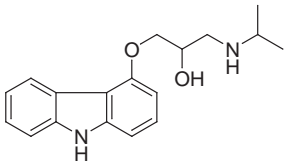
Product Number	Product	Order number / Unit
2460	<p>(R)-FPSPPA</p> <p>Precursor for (R)-[¹¹C]-Methyl-FPSPPA</p> <p>2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>C₂₁H₂₄F₂N₂O₂S Molar Mass: 406.49</p> <p>[1283095-67-9]</p> <p>White solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: Spiro[piperidine-4,7'-[7H]thieno[2,3-c]pyran]-1-propanamide, 2'-fluoro-α-[(2-fluorophenyl)methyl]-4',5'-dihydro-, (αR)-</p> <p>Synonyms: (2R)-2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>Literature: Pike V. et al. Synthesis and Evaluation of Radioligands for Imaging Brain Nociceptin/Orphanin FQ Peptide (NOP) Receptors with Positron Emission Tomography, J. Med. Chem. 2011, 54, 2687-2700. Pedregal C. et al. Development of LC-MS/MS-Based Receptor Occupancy Tracers and Positron Emission Tomography Radioligands for the Nociceptin/Orphanin FQ (NOP) Receptor, J. Med. Chem. 2012, 55, 4955-4967. Kimura Y. et al. Brain and Whole-Body Imaging in Rhesus Monkeys of ¹¹C-NOP-1A, a Promising PET Radioligand for Nociceptin/Orphanin FQ Peptide Receptors, J. Nucl. Med. 2011, 52, 1638-1645.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

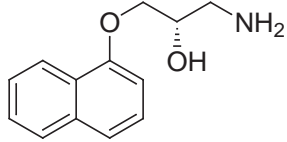
Product Number	Product	Order number / Unit
2470	<p>(S)-Methyl-FPSPPA</p> <p>Reference standard for (S)-[¹¹C]-Methyl-FPSPPA 2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>C₂₂H₂₆F₂N₂O₂S Molar Mass: 420.52 [1283095-70-4]</p> <p>White solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: Spiro[piperidine-4,7'-[7H]thieno[2,3-c]pyran]-1-propanamide, 2'-fluoro-α-[(2-fluorophenyl)methyl]-4',5'-dihydro-N-methyl-, (αS)-</p> <p>Synonyms: (2S)-2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)-N-methyl-propanamide</p> <p>Literature: Pike V. et al. Synthesis and Evaluation of Radioligands for Imaging Brain Nociceptin/Orphanin FQ Peptide (NOP) Receptors with Positron Emission Tomography, J. Med. Chem. 2011, 54, 2687-2700. Pedregal C. et al. Development of LC-MS/MS-Based Receptor Occupancy Tracers and Positron Emission Tomography Radioligands for the Nociceptin/Orphanin FQ (NOP) Receptor, J. Med. Chem. 2012, 55, 4955-4967. Kimura Y. et al. Brain and Whole-Body Imaging in Rhesus Monkeys of ¹¹C-NOP-1A, a Promising PET Radioligand for Nociceptin/Orphanin FQ Peptide Receptors, J. Nucl. Med. 2011, 52, 1638-1645.</p>	<p>2470.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2480	<p>(R)-Methyl-FPSPPA</p> <p>Reference standard for (R)-[¹¹C]-Methyl-FPSPPA 2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)propanamide</p> <p>C₂₂H₂₆F₂N₂O₂S Molar Mass: 420.52 [1283095-73-7]</p> <p>White solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: Spiro[piperidine-4,7'-[7H]thieno[2,3-c]pyran]-1-propanamide, 2'-fluoro-α-[(2-fluorophenyl)methyl]-4',5'-dihydro-N-methyl-, (αR)-</p> <p>Synonyms: (2R)-2-[(2-Fluorophenyl)methyl]-3-(2-fluorospiro[4,5-dihydrothieno[2,3-c]pyran-7,40-piperidine]-10-yl)-N-methyl-propanamide</p> <p>Literature: Pike V. et al. Synthesis and Evaluation of Radioligands for Imaging Brain Nociceptin/Orphanin FQ Peptide (NOP) Receptors with Positron Emission Tomography, J. Med. Chem. 2011, 54, 2687-2700. Pedregal C. et al. Development of LC-MS/MS-Based Receptor Occupancy Tracers and Positron Emission Tomography Radioligands for the Nociceptin/Orphanin FQ (NOP) Receptor, J. Med. Chem. 2012, 55, 4955-4967. Kimura Y. et al. Brain and Whole-Body Imaging in Rhesus Monkeys of ¹¹C-NOP-1A, a Promising PET Radioligand for Nociceptin/Orphanin FQ Peptide Receptors, J. Nucl. Med. 2011, 52, 1638-1645.</p>	<p>2480.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

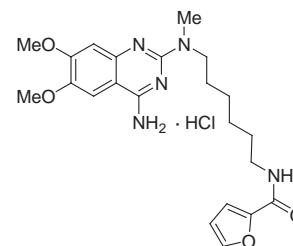
Product Number	Product	Order number / Unit
2500	<p>(R)-Desisopropylcarazolol Precursor for (R)-[¹¹C]Carazolol</p> <p>C₁₅H₁₆N₂O₂ Molar Mass: 256.3 [143412-41-3]</p> <p>Colourless or nearly colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2-Propanol, 1-amino-3-(9H-carbazol-4-yloxy)- (R)</p> <p>Synonyms: (R)-1-amino-3-(9H-carbazol-4-yloxy)-2-propanol</p> <p>Literature: Berridge M.S. et al. Preparation and In Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569.</p> <p>Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230.</p> <p>Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2500.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2510	<p>(S)-Desisopropylcarazolol Precursor for (S)-[¹¹C]Carazolol</p> <p>C₁₅H₁₆N₂O₂ Molar Mass: 256.3 [143412-40-2]</p> <p>Colourless or nearly colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2-Propanol, 1-amino-3-(9H-carbazol-4-yloxy)- (S)</p> <p>Synonyms: (S)-1-amino-3-(9H-carbazol-4-yloxy)-2-propanol</p> <p>Literature: Berridge M.S. et al. Preparation and in Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569.</p> <p>Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230.</p> <p>Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2510.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2511	<p>(R,S)-Desisopropylcarazolol Precursor for (R,S)-[¹¹C]Carazolol</p> <p>C₁₅H₁₆N₂O₂ Molar Mass: 256.3 [72955-96-5]</p> <p>Colourless or nearly colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2-Propanol, 1-amino-3-(9H-carbazol-4-yloxy)-</p> <p>Synonyms: 1-amino-3-(9H-carbazol-4-yloxy)-2-propanol</p> <p>Literature: Berridge M.S. et al. Preparation and in Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569.</p> <p>Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230.</p> <p>Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2511.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2520	<p>(R)-Carazolol Reference standard for (R)-[¹¹C]Carazolol</p> <p>C₁₈H₂₂N₂O₂ Molar Mass: 298.38 [78859-34-4]</p> <p>Yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[(1-methylethyl)amino], (2R)</p> <p>Synonyms: (R)-4-(2-Hydroxy-3-isopropylamino-propoxy)-carbazole; (R)-1-(Carbazol-4-yloxy)-3-(isopropylamino)-2-propanol; (+)-Carazolol</p> <p>Literature: Berridge M.S. et al. Preparation and in Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569.</p> <p>Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230.</p> <p>Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2520.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

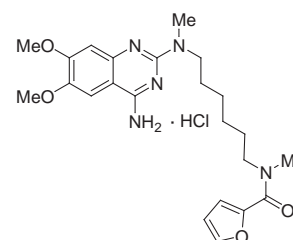
Product Number	Product	Order number / Unit
2530	<p>(S)-Carazolol Reference standard for (S)-[¹¹C]Carazolol</p> <p>C₁₈H₂₂N₂O₂ Molar Mass: 298.38 [78859-33-3] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[(1-methylethyl)amino] (2S) Synonyms: (S)-4-(2-Hydroxy-3-isopropylamino-propoxy)-carbazole; (S)-1-(Carbazol-4-yloxy)-3-(isopropylamino)-2-propanol; (-)-Carazolol Literature: Berridge M.S. et al. Preparation and in Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569. Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230. Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2530.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2540	<p>(R,S)-Carazolol Reference standard for [¹¹C]Carazolol</p> <p>C₁₈H₂₂N₂O₂ Molar Mass: 298.38 [57775-29-8] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 2-Propanol, 1-(9H-carbazol-4-yloxy)-3-[(1-methylethyl)amino], Synonyms: 4-(2-Hydroxy-3-isopropylamino-propoxy)-carbazole; 1-(Carbazol-4-yloxy)-3-(isopropylamino)-2-propanol; (±)-Carazolol Literature: Berridge M.S. et al. Preparation and In Vivo Binding of [¹¹C]Carazolol, a Radiotracer for the Beta-adrenergic Receptor. Nucl. Med. Biol. 1992, 19, 563-569. Zheng L. et al. Synthesis, Binding Properties, and ¹⁸F-Labeling of Fluorocarazolol, a High-Affinity beta-Adrenergic Receptor Antagonist. J. Med. Chem. 1994, 37, 3219-3230. Elsinga P.H. et al. (S,S)- and (S,R)-1'-[¹⁸F]Fluorocarazolol, Ligands for the Visualization of Pulmonary beta-Adrenergic Receptors with PET. Nucl. Med. Biol. 1996, 23, 159-167.</p>	<p>2540.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2550	<p>(S)-N-Desisopropylpropranolol Precursor for [¹¹C] and [¹⁸F]Propranolol Metabolite of Propranolol $C_{13}H_{15}NO_2$ Molar Mass: 217.26 [88547-38-0] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1-Amino-3-(naphthalen-1-yloxy)-propan-2-ol, (S) Synonymes: 1-Amino-3-(1-naphthalenyloxy)propan-2-ol Literature: Tewson T.J. et al. Synthesis and biodistribution of R- and S-isomers of [¹⁸F]-fluoropropranolol, a lipophilic ligand for the beta-adrenergic receptor. Nucl. Med. Biol. 1999, 26, 891-896.</p>	<p>2550.0005: 5 mg per vial 2550.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

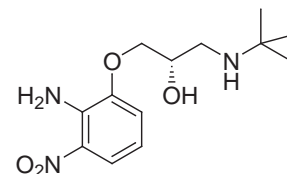
Product Number	Product	Order number / Unit
2570	GB 99 Precursor for [¹¹C]GB 67 $C_{22}H_{29}N_5O_4 \cdot HCl$ Molar Mass: 463.96 [116784-78-2] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 2-Furancarboxamide, N-[6-[(4-amino-6,7-dimethoxy-2-quinazoliny)lmethylamino]hexyl]-, monohydrochloride Synonymes: GB 99 hydrochloride salt; N-[6-[(4-amino-6,7-dimethoxy-2-quinazoliny)lmethylamino]hexyl]-2-furancarboxamide, hydrochloride salt Literature: Riemann B. et al. Radioligands for imaging myocardial α- and β-adrenoceptors. Nuklearmedizin 2003, 42, 4-9. Pike V. et al. Selection, design and evaluation of new radioligands for PET studies of cardiac adrenoceptors. Pharm. Acta Helv. 2000, 74, 191-200.	2570.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



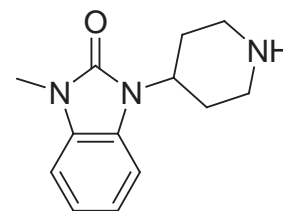
Product Number	Product	Order number / Unit
2580	GB 67 Reference standard for [¹¹C]GB 67 $C_{23}H_{31}N_5O_4 \cdot HCl$ Molar Mass: 477.98 [116784-70-4] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Furancarboxamide, N-[6-[(4-amino-6,7-dimethoxy-2-quinazoliny)lmethylamino]hexyl]-N-methyl-, monohydrochloride Synonymes: GB 67 hydrochloride salt; N-[6-[(4-amino-6,7-dimethoxy-2-quinazoliny)lmethylamino]hexyl]-N-methyl-2-furancarboxamide, hydrochloride salt Literature: Riemann B. et al. Radioligands for imaging myocardial α- and β-adrenoceptors. Nuklearmedizin 2003, 42, 4-9. Law M. P. et al. Evaluation of [¹¹ C]GB 67, a novel radioligand for imaging myocardial α1-adrenoreceptors with positron emission tomography. Eur. J. Nucl. Med. 2000, 27, 7-17. Pike V. et al. Selection, design and evaluation of new radioligands for PET studies of cardiac adrenoceptors. Pharm. Acta Helv. 2000, 74, 191-200. Osman S. et al. Evaluation of the Prospective α1-adrenoreceptor Radioligand, [¹¹ C]GB67, in Human Volunteers - Myocardial Uptake and Assessment of Radioactive Metabolites in Plasma. J. Labelled Compd. Radiopharm. 1999, 42, S22-S24.	2580.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



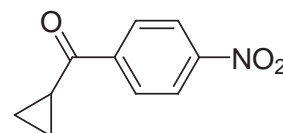
Product Number	Product	Order number / Unit
2590	<p>(S)-1-(2-Amino-3-nitrophenoxy)-3-tert-butylamino-propan-2-ol</p> <p>Precursor for [¹¹C]CGP 12177</p> <p>C₁₃H₂₁N₃O₄ Molar Mass: 283.32</p> <p>[132059-12-2]</p> <p>Yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2-Propanol, 1-(2-amino-3-nitrophenoxy)-3-[(1,1-dimethylethyl)amino]-, (S)-</p> <p>Synonyms: n/a</p> <p>Literature: Hammadi A. et al. Asymmetric synthesis of (2S)-and (2R)-4-(3-tert-butylamino-2-hydroxypropoxy)benzimidazol-2-[¹¹C]-one ((S)-and (R)-[¹¹C]-CGP 12177) from optically active precursors J. Labelled Compd. Radiopharm. 1991, 29, 681-690.</p> <p>Merlet P. et al. Positron emission tomography with ¹¹C CGP-12177 to assess beta-adrenergic receptor concentration in idiopathic dilated cardiomyopathy. Circulation 1993, 87, 1169-1178.</p> <p>Nishijima K. et al. Preparation and pharmaceutical evaluation for clinical application of high specific activity S-(-)-[¹¹C]CGP-12177, a radioligand for [beta]-adrenoreceptors. Nucl. Med. Commun. 2004, 25, 845-849.</p>	<p>2590.0005: 5 mg per vial</p> <p>2590.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

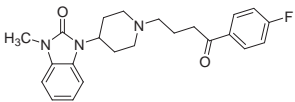


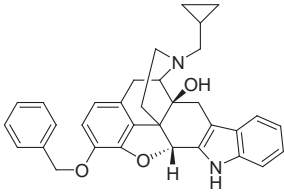
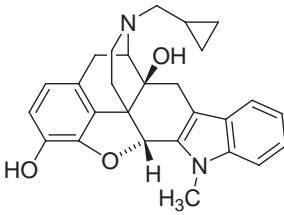
Product Number	Product	Order number / Unit
2700	4-(2-Keto-3-methyl-1-benzimidazoliny)piperidine Precursor for [¹⁸F]NMB ([¹⁸F]-(3-N-Methyl)Benperidol) $C_{13}H_{17}N_3O$ Molar Mass: 231.14 [53786-10-0] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2H-Benzimidazol-2-one, 1,3-dihydro-1-methyl-3-(4-piperidinyl)- Synonymes: 1-Methyl-3-(4-piperidyl)-2-benzimidazolinone; KMBP Literature: Moerlein S.M. et al. Production of Fluorine-18-Labelled (3-N-Methyl)benperidol for PET Investigation of Cerebral Dopaminergic Receptor Binding. Int. J. Rad. Appl. Instrum. A 1992, 43, 913-917.	2700.0005: 5 mg per vial Please inquire for customized filling and bulk quantities.

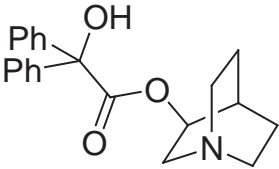
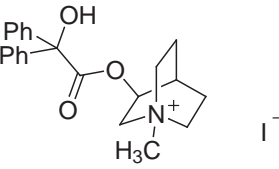


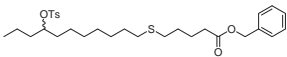
Product Number	Product	Order number / Unit
2750	Cyclopropyl-p-nitrophenyl ketone Precursor for [¹⁸F]-labelled building block for different alkylbenzenes (fluorine-18-labelled haloperidol, spiperone, N-(p-nitrobenzyl)spiperone, N-methyl-spiroperidol, BMY14802, 3-N-methyl-benperidol, benperidol) $C_{10}H_9NO_3$ Molar Mass: 191.18 [93639-12-4] Pale yellow needles packaged in dark glass crimp cap vials. Purity: > 99 % Certificates: CoA; ¹ H NMR spectrum; HPLC Chemical Name: CA index name: Methanone, cyclopropyl-(4-nitrophenyl)- Synonymes: n/a Literature: Hashizume K. et al. Rapid and efficient synthesis of high-purity fluorine-18 labeled haloperidol and spiperone via the nitro precursor in combination with a new HPLC separation method. Bull. Chem. Soc. Jpn. 1997, 70, 681-687. Mach R. H. et al. Synthesis and in vivo evaluation of [¹⁸ F]-N-(p-nitrobenzyl)spiperone ([¹⁸ F]PNBS) in rats. Nucl. Med. Biol. 1993, 20, 269-278. Moerlein S.M. et al. Production of fluorine-18-labeled (3-N-methyl)benperidol for PET investigation of cerebral dopaminergic receptor binding. Int. J. Rad. Appl. Instrum. A 1992, 43, 913-917. Shiue C. Y. et al. Synthesis of (±)-[¹⁸ F]BMY14802, its enantiomers and their anatomical distribution in mice. Nucl. Med. Biol. 1993, 20, 625-630.	2750.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

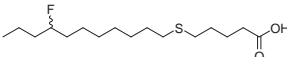


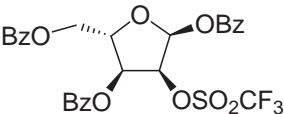
Product Number	Product	Order number / Unit
2760	<p>FNMB</p> <p>Reference standard for [¹⁸F]NMB ([¹⁸F]-(3-N-Methyl)Benperidol)</p> <p>C₂₃H₂₆FN₃O₂ Molar Mass: 395.47 [133066-70-3]</p> <p>Colourless to brown powder packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2H-benzimidazol-2-one, 1-[1-[4-(4-Fluorophenyl)-4-oxobutyl]-4-piperidinyl]-1,3-dihydro-3-methyl-</p> <p>Synonyms: 1-[3-(4'-fluorobenzoyl)propyl]-4-(2-keto-3-methyl-1-benzimidazoliny)l)piperidine); N-Methylbenperidol</p> <p>Literature: Shiue C.-Y. et al. Syntheses and Specific Activity Determinations of No-Carrier-Added Fluorine-18-Labeled Neuroleptic Drugs J. Nucl. Med. 1985, 26, 181-186.</p> <p>Suehiro M. et al. In Vivo Labeling of the Dopamine D2 Receptor with N-¹¹C-Methyl-Benperidol J. Nucl. Med. 1990, 31, 2015-2021.</p> <p>Moerlein S.M. et al. Production of fluorine-18-labeled (3-N-methyl)benperidol for PET investigation of cerebral dopaminergic receptor binding. Int. J. Rad. Appl. Instrum. A 1992, 43, 913-917.</p> <p>Moerlein S.M. et al. Radiation Dosimetry of [¹⁸F](N-Methyl)Benperidol as Determined by Whole-Body PET Imaging of Primates Nucl. Med. Biol. 1997, 24, 311-318.</p> <p>Nikolaus S. et al. In Vivo Measurement of D2 Receptor Density and Affinity for ¹⁸F-(3-N-Methyl)Benperidol in the Rat Striatum with a PET System for Small Laboratory Animals J. Nucl. Med. 2003, 44, 618-624.</p>	<p>2760.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

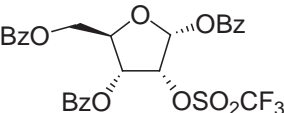
Product Number	Product	Order number / Unit
2800	<p>3-O-Benzyl-naltrindole</p> <p>Precursor for N1'-([¹¹C]Methyl)-naltrindole</p> <p>Highly selective antagonist for δ opioid receptors</p> <p>C₃₃H₃₂N₂O₃ Molar Mass: 504.62</p> <p>[161532-22-5]</p> <p>Yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 4,8-methanobenzofuro[2,3-a]pyrido[4,3-b]carbazol-8a(9H)-ol, 7-(cyclopropylmethyl)-5,6,7,8,14,14b-hexahydro-1-(phenylmethoxy-), (8R-(4bS*, 8a, 8a.beta,14b.beta));</p> <p>Synonyms: 3-BNTI; 17-(Cyclopropylmethyl)-6,7-dehydro-4,5α-epoxy-3-benzyloxy-14-hydroxy-6,7,2',3'-indolomorphinan</p> <p>Literature: Madar I. et al. Imaging of δ- and μ-Opioid Receptors in Temporal Lobe Epilepsy by Positron Emission Tomography. Annals of Neurology 1997, 41, 358-367. Lever J.R. et al. Synthesis of N1'-([¹¹C]methyl)naltrindole ([¹¹C]MeNTI): A radioligand for positron emission tomographic studies of δ opioid receptors. J. Labelled Compd. Radiopharm. 1995, 36, 137-145.</p>	<p>2800.0001: 1 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 
2810	<p>N-Methylnaltrindole</p> <p>Reference standard for N1'-([¹¹C]Methyl)-naltrindole</p> <p>Highly selective antagonist for δ opioid receptors</p> <p>C₂₇H₂₈N₂O₃ Molar Mass: 428.52</p> <p>[111555-57-8]</p> <p>Yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 4,8-methanobenzofuro[2,3-a]pyrido[4,3-b]carbazole-1,8a (9H)-diol, 7-(cyclopropylmethyl)-5,6,7,8,14,14b-hexahydro-14-methyl-, (4bS,8R,8aS,14bR)-</p> <p>Synonyms: MeNTI; 4,8-methanobenzofuro[2,3-a]pyrido[4,3-b]carbazole-1,8a (9H)-diol, 7-(cyclopropylmethyl)-5,6,7,8,14,14b-hexahydro-14-methyl-, [8R-(4bS, 8.α., 8a.beta., 14b.beta.)]; (5R,9R,13S,14S)-17-(cyclopropylmethyl)-6,7-dehydro-4,5.α-epoxy-3,14-dihydroxy-N1'-methyl-6,7,2',3'-indolomorphinan</p> <p>Literature: Madar I. et al. Imaging of δ- and μ-Opioid Receptors in Temporal Lobe Epilepsy by Positron Emission Tomography. Annals of Neurology 1997, 41, 358-367. Lever J.R. et al. Synthesis of N1'-([¹¹C]methyl)naltrindole ([¹¹C]MeNTI): A radioligand for positron emission tomographic studies of δ opioid receptors. J. Labelled Compd. Radiopharm. 1995, 36, 137-145.</p>	<p>2810.0005: 5 mg per vial</p> <p>2810.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

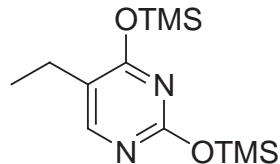
Product Number	Product	Order number / Unit
2830	<p>QNB</p> <p>Precursor for [^{11}C]Me-QNB ([^{11}C]N-methyl-quinuclidin-3-yl benzilate)</p> <p>$\text{C}_{21}\text{H}_{23}\text{NO}_3$ Molar Mass: 337.41 [6581-06-2]</p> <p>Colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H NMR spectrum</p> <p>Chemical Name: CA index name: Benzeneacetic acid, α-hydroxy-α-phenyl-, 1-azabicyclo[2.2.2]oct-3-yl ester</p> <p>Synonyms: 3-Quinuclidinol, benzilate (ester); Benzoic acid, 3-quinuclidinyl ester; β-Quinuclidinyl benzilate; 3-Hydroxyquinuclidine benzilate; 3-Oxyquinuclidine benzilate; 3-Quinuclidinol benzilate; 3-Quinuclidinyl benzilate; 3-Quinuclidyl benzilate; NSC 173698; Ro 2-3308</p> <p>Literature: Dolle F. et al. Highly efficient synthesis of [^{11}C]Me-QNB, a selective radioligand for the quantification of the cardiac muscarinic receptors using PET. J. Labelled Compd. Radiopharm. 2001, 44, 337-334.</p>	<p>2830.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2840	<p>Me-QNB</p> <p>Reference standard for [^{11}C]Me-QNB ([^{11}C]N-methyl-quinuclidin-3-yl benzilate)</p> <p>$\text{C}_{22}\text{H}_{26}\text{INO}_3$ Molar Mass: 479.35 [71861-83-1]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H NMR spectrum</p> <p>Chemical Name: CA index name: 1-Azoniabicyclo[2.2.2]octane, 3-[(hydroxydiphenylacetyl)oxy]-1-methyl-, iodide</p> <p>Synonyms: n/a</p> <p>Literature: Dolle F. et al. Highly efficient synthesis of [^{11}C]Me-QNB, a selective radioligand for the quantification of the cardiac muscarinic receptors using PET. J. Labelled Compd. Radiopharm. 2001, 44, 337-334.</p>	<p>2840.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

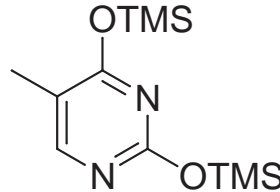
Product Number	Product	Order number / Unit
2850	<p>Benzyl-14-(R,S)-tosyloxy-6-thiaheptadecanoate Precursor for [¹⁸F]FTHA (14-(R,S)-[¹⁸F]Fluoro-6-thia-heptadecanoic acid) C₃₀H₄₄O₅S₂ Molar Mass: 548.79 [137564-70-6] Yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: Pentanoic acid, 5-[[[8-[[[(4-methylphenyl)sulfonyl]oxy]undecyl]thio]-phenylmethyl ester] ± Synonyms: 14-(R,S)-Tosyloxy-6-thiaheptadecanoic acid benzyl ester Literature: DeGrado T.R. et al. Synthesis of 14-(R,S)-[¹⁸F]fluoro-6-thia-heptadecanoic acid. J. Labelled Compd. Radiopharm. 1991, 29, 989-995. DeGrado T.R. et al. 14(R,S)-[¹⁸F]fluoro-6-thia-heptadecanoic acid (FTHA): evaluation in mouse of a new probe of myocardial utilization of a long chain fatty acids. J. Nucl. Med. 1991, 32, 1888-1896. Maeki M.T. et al. Free Fatty Acid Uptake in the Myocardium and Skeletal Muscle Using Fluorine-18-Fluoro-6-Thiaheptadecanoic Acid. J. Nucl. Med. 1998, 39, 1320-1327. Taylor M. et al. An Evaluation of Myocardial Fatty Acid and Glucose Uptake Using PET with [¹⁸F]Fluoro-6-Thia-Heptadecanoic Acid and [¹⁸F]FDG in Patients with Congestive Heart Failure. J. Nucl. Med. 2001, 42, 55-62.</p>	<p>2850.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

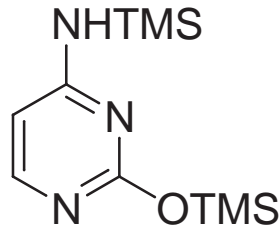
Product Number	Product	Order number / Unit
2860	<p>14-(R,S)-Fluoro-6-thiaheptadecanoic acid Reference standard for [¹⁸F]FTHA (14-(R,S)-[¹⁸F]Fluoro-6-thia-heptadecanoic acid) C₁₆H₃₁FO₂S Molar Mass: 306.48 [137564-72-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Pentanoic acid, 5-[(8-fluoroundecyl)thio]- Synonyms: 14-Fluoro-6-thiaheptadecanoic acid; FTHA Literature: DeGrado T.R. et al. Synthesis of 14-(R,S)-[¹⁸F]fluoro-6-thia-heptadecanoic acid. J. Labelled Compd. Radiopharm. 1991, 29, 989-995. DeGrado T.R. et al. 14(R,S)-[¹⁸F]fluoro-6-thia-heptadecanoic acid (FTHA): evaluation in mouse of a new probe of myocardial utilization of a long chain fatty acids. J. Nucl. Med. 1991, 32, 1888-1896. Maeki M.T. et al. Free Fatty Acid Uptake in the Myocardium and Skeletal Muscle Using Fluorine-18-Fluoro-6-Thiaheptadecanoic Acid. J. Nucl. Med. 1998, 39, 1320-1327. Taylor M. et al. An Evaluation of Myocardial Fatty Acid and Glucose Uptake Using PET with [¹⁸F]Fluoro-6-Thia-Heptadecanoic Acid and [¹⁸F]FDG in Patients with Congestive Heart Failure. J. Nucl. Med. 2001, 42, 55-62.</p>	<p>2860.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2869	<p>2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-L-ribofuranose</p> <p>Precursor 1 for [18F]L-FEAU and [18F]L-FMAU</p> <p>$C_{27}H_{21}F_3O_{10}S$ Molar Mass: 594.51 [339091-18-8]</p> <p>Colourless foam or solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H and ^{19}F NMR spectra</p> <p>Chemical Name: CA index name: α-L-Ribofuranose, 1,3,5-tribenzoate 2-(trifluoro-methanesulfonate)</p> <p>Synonyms: 1,3,5-Tri-O-benzoyl-2-O-(trifluoromethanesulfonyl)-α-L-ribofuranose; (2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-L-ribofuranose) [18F]L-FEAU = 2'-[18F]Fluoro-5-ethyl-1-β-L-arabinofuranosyluracil [18F]L-FMAU = 2'-deoxy-2'-[18F]Fluoro-5-methyl-1-β-L-arabinofuranosyluracil</p> <p>Literature: Alauddin M.M. et al. Radiosynthesis of 2'-deoxy-2'-[18F]-fluoro-5-methyl-1-β-L-arabinofuranosyluracil ([18F]-L-FMAU) for PET. Appl. Radiat. Isot. 2007, 65, 941-946.</p> <p>Alauddin M.M. et al. Evaluation of 2'-deoxy-2'-[18F]fluoro-5-methyl-1-β-L-arabinofuranosyluracil ([18F]-L-FMAU) as a PET imaging agent for cellular proliferation: comparison with [18F]-D-FMAU and [18F]FLT. Eur. J. Nucl. Mol. Imaging, 2008, 35, 990-998.</p>	<p>2869.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

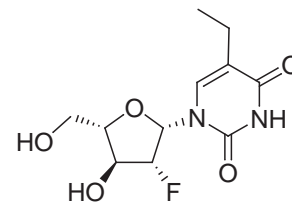
Product Number	Product	Order number / Unit
2870	<p>2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-D-ribofuranose</p> <p>Precursor 1 for [18F]FEAU and [18F]FMAU (FEAU = 2'-Fluoro-5-ethyl-1-β-D-arabinofuranosyluracil FMAU = 2'-deoxy-2'-Fluoro-5-methyl-1-β-D-arabinofuranosyluracil)</p> <p>$C_{27}H_{21}F_3O_{10}S$ Molar Mass: 594.51 [97614-41-0]</p> <p>Colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H and ^{19}F NMR spectra</p> <p>Chemical Name: CA index name: α-D-Ribofuranose, 1,3,5-tribenzoate 2-(trifluoro-methanesulfonate)</p> <p>Synonyms: 1,3,5-Tri-O-benzoyl-2-O-(trifluoromethanesulfonyl)-α-D-ribofuranose; (2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-D-ribofuranose)</p> <p>Literature: Blasberg R.G. et al. Synthesis and Evaluation of [18F] Labeled Pyrimidine Nucleosides for Positron Emission Tomography Imaging of Herpes Simplex Virus 1 Thymidine Kinase Gene Expression. J. Med. Chem. 2006, 49, 5377-5381.</p> <p>Alauddin M.M. et al. Synthesis and evaluation of 2'-deoxy-2'-^{18}F-fluoro-5-fluoro-1-beta-D-arabinofuranosyluracil as a potential PET imaging agent for suicide gene expression. J. Nucl. Med. 2004, 45, 2063-2069.</p> <p>Alauddin M.M. et al. Stereospecific fluorination of 1,3,5-tri-O-benzoyl-α-D-ribofuranose-2-sulfonate esters: preparation of a versatile intermediate for synthesis of 2'-[18F]-fluoro-arabinonucleosides. J. Fluorine Chem. 2000, 106, 87-9</p>	<p>2870.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2871	5-Ethyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine Precursor 2 for [¹⁸F]FEAU (2'-[¹⁸F]Fluoro-5-ethyl-1-β-D-arabinofuranosyluracil)	2871.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.
	<p>Caution, very sensitive to moisture!</p> <p>C₁₂H₂₄N₂O₂Si Molar Mass: 284.5</p> <p>[31167-05-2]</p> <p>Colourless oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: Pyrimidine, 5-ethyl-2,4-bis[(trimethylsilyl)oxy]-</p> <p>Synonyms: 2,4-Bis(trimethylsiloxy)-5-ethylpyrimidine; 2,4-Bis(trimethylsilyl)-5-ethyluracil</p> <p>Literature: Buursma A.R. et al. ¹⁸F-FEAU as a radiotracer for herpes simplex virus thymidine kinase gene expression: in-vitro comparison with other PET tracers. Nucl. Med. Commun. 2006, 27, 25-30.</p>	

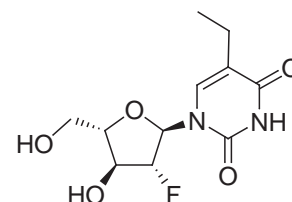
Product Number	Product	Order number / Unit
2872	5-Methyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine Precursor 2 for [¹⁸F]FMAU (2'-deoxy-2'-[¹⁸F]fluoro-5-methyl-1-β-D-arabinofuranosyluracil)	2872.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.
	<p>Caution, very sensitive to moisture!</p> <p>C₁₁H₂₂N₂O₂Si Molar Mass: 270.48</p> <p>[7288-28-0]</p> <p>Colourless solid or liquid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: Pyrimidine, 5-methyl-2,4-bis[(trimethylsilyl)oxy]-</p> <p>Synonyms: 2,4-Bis(trimethylsiloxy)-5-methylpyrimidine; 2,4-Bis(trimethylsilyl)-5-methyluracil; 2,4-Bis-O-(trimethylsilyl)thymine; O,O'-Bis(trimethylsilyl)thymine; Bis(O-trimethylsilyl)thymine</p> <p>Literature: Mangner T.J. et al. Synthesis of 2'-deoxy-2'-[¹⁸F]fluoro-beta-D-arabinofuranosyl nucleosides, [¹⁸F]FAU, [¹⁸F]FMAU, [¹⁸F]FBAU, [¹⁸F]FIAU, as potential PET agents for imaging cellular proliferation. Nucl. Med. Biol. 2003, 30, 215-224.</p> <p>Buursma A.R. et al. ¹⁸F-FEAU as a radiotracer for herpes simplex virus thymidine kinase gene expression: in-vitro comparison with other PET tracers. Nucl. Med. Commun. 2006, 27, 25-30.</p> <p>Alauddin M.M. et al. Direct comparison of radiolabeled probes FMAU, FHBG, and FHPG as PET imaging agents for HSV1-tk expression in a human breast cancer model. Mol. Imaging 2004, 3, 76-84.</p> <p>Alauddin M.M. et al. Synthesis and evaluation of 2'-deoxy-2'-¹⁸F-fluoro-5-fluoro-1-beta-D-arabinofuranosyluracil as a potential PET imaging agent for suicide gene expression. J. Nucl. Med. 2004, 45, 2063-2069</p>	

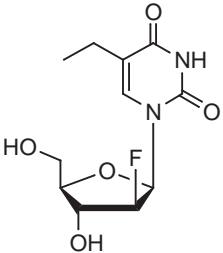
Product Number	Product	Order number / Unit
2873	<p>Bis(trimethylsilyl)cytosine Precursor 2 for [¹⁸F]FAC (1-(2'-deoxy-2'- [¹⁸F]fluoroarabinofuranosyl)cytosine) $C_{10}H_{21}N_3OSi$ Molar Mass: 255.46 [18037-10-0] Colourless solid packaged in dark glass crimp cap vials. Purity: ≥ 90 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Pyrimidinamine, N-(trimethylsilyl)-2-[(trimethylsilyl)oxy]- Synonymes: Trimethylsilyl-(2-trimethylsilyloxy-pyrimidin-4-yl)-amine; N-(Trimethylsilyl)-2-[(trimethylsilyl)oxy]pyrimidin-4-amine; N-(trimethylsilyl)-2-[(trimethylsilyl)oxy]-4-pyrimidinamin;N- (Trimethylsilyl)-2-[(trimethylsilyl)oxy]-4-pyrimidinamine; Pyrimidine, 2-(trimethylsiloxy)-4-[(trimethylsilyl)amino]-; N-(trimethylsilyl)-2-[(trimethylsilyl)oxy]pyrimidin-4-amine; BTMSC; Pyrimidine, 2-(trimethylsiloxy)-4-[(trimethylsilyl)amino]-; 2,4-Bis(trimethylsilyl)cytosine; O,N-Bis(trimethylsilyl)cytosine Literature: Radu C.G. et al. Molecular imaging of lymphoid organs and immune activation by positron emission tomography with a new [¹⁸F]-labeled 2'-deoxycytidine analog. Nature Medicine 2008, 14, 783-788.</p>	<p>2873.0060: 60 mg per vial Please inquire for customized filling and bulk quantities.</p> 

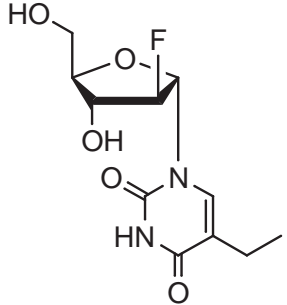
Product Number	Product	Order number / Unit
2874	<p>L-FEAU</p> <p>Reference standard for [^{11}C]L-FEAU and [^{18}F]L-FEAU (2'-[^{18}F]Fluoro-5-ethyl-1-β-L-arabinofuranosyluracil)</p> <p>$\text{C}_{11}\text{H}_{15}\text{FN}_2\text{O}_5$ Molar Mass: 274.25</p> <p>[171720-95-9]</p> <p>Colourless foam or solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{19}F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-L-arabinofuranosyl)-5-ethyl-</p> <p>Synonyms: 1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-ethyluracil; 1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; 1-(2-Deoxy-2-fluoro-arabinofuranosyl)-5-ethyluracil; 2'-Fluoro-5-ethyl-arabinosyluracil; 2'-Fluoro-5-ethyl-β-L-arabinofuranosyluracil; 1-[(2S,3R,4S,5S)-3-Fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-ethylpyrimidine-2,4-dione; 5-Ethyl-1-[(2S,3R,4S,5S)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione; 5-Ethyl-1-(2-fluoro-2-deoxy-β-L-arabinofuranosyl)uracil; 1-(2-Deoxy-2-fluoro-β-L-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; β-L-FEAU</p> <p>Literature: Ma et al. Structure-Activity Relationships of 1-(2-Deoxy-2-fluoro-β-L-arabino-furanosyl)pyrimidine Nucleosides as Anti-Hepatitis B Virus Agents. J. Med. Chem. 1996, 39, 2835-2843.</p>	<p>2874.0010: 10 mg per vial</p> <p>2874.0100: 100 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

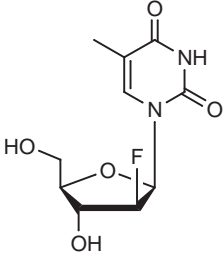


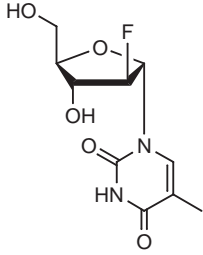
Product Number	Product	Order number / Unit
2875	<p>α-L-FEAU</p> <p>Analytical standard for validation of [^{11}C]L-FEAU and [^{18}F]L-FEAU synthesis (2'-[^{18}F]Fluoro-5-ethyl-1-α-L-arabinofuranosyluracil)</p> <p>$\text{C}_{11}\text{H}_{15}\text{FN}_2\text{O}_5$ Molar Mass: 274.25</p> <p>CAS-RN not yet assigned</p> <p>Colourless foam or solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{19}F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-α-L-arabinofuranosyl)-5-ethyl-</p> <p>Synonyms: 1-(2-Deoxy-2-fluoro-α-L-arabinofuranosyl)-5-ethyluracil; 1-(2-Deoxy-2-fluoro-α-L-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; 2'-Fluoro-5-ethyl-α-L-arabinofuranosyluracil; 5-Ethyl-1-(2-fluoro-2-deoxy-α-L-arabinofuranosyl)uracil; 1-(2-Deoxy-2-fluoro-α-L-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; α-L-FEAU</p> <p>Literature: Ma et al. Structure-Activity Relationships of 1-(2-Deoxy-2-fluoro-β-L-arabino-furanosyl)pyrimidine Nucleosides as Anti-Hepatitis B Virus Agents. J. Med. Chem. 1996, 39, 2835-2843.</p>	<p>2875.0002: 2 mg per vial</p> <p>2875.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

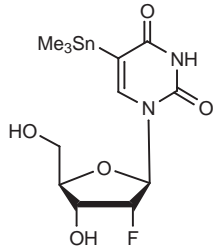


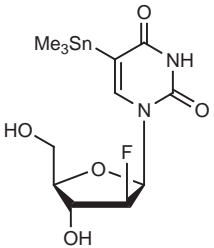
Product Number	Product	Order number / Unit
2876	<p>FEAU</p> <p>Reference standard for [^{11}C]FEAU and [^{18}F]FEAU (2'-[^{18}F]Fluoro-5-ethyl-1-β-D-arabinofuranosyluracil) (2'-Fluoro-5-[^{11}C]ethyl-1-β-D-arabinofuranosyluracil)</p> <p>$\text{C}_{11}\text{H}_{15}\text{FN}_2\text{O}_5$ Molar Mass: 274.25</p> <p>[83546-42-3]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{19}F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethyl-</p> <p>Synonymes: 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethyluracil; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; 1-(2-Deoxy-2-fluoro-arabinofuranosyl)-5-ethyluracil; 2'-Fluoro-5-ethyl-arabinosyluracil; 2'-Fluoro-5-ethyl-β-D-arabinofuranosyluracil; 1-[(2R,3S,4R,5R)-3-Fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-ethylpyrimidine-2,4-dione; 5-Ethyl-1-[(2R,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione; 5-Ethyl-1-(2-fluoro-2-deoxy-β-D-arabinofuranosyl)uracil; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-ethyl-2,4(1H,3H)-pyrimidinedione; β-FEAU; β-D-FEAU</p> <p>Literature: Chou T.C. et al. Synthesis and biological effects of 2'-Fluoro-5-ethyl-1-beta-D-arabinofuranosyluracil. Antimicrob. Agents Chemother. 1987, 31, 1355-1358</p>	<p>2876.0010: 10 mg per vial</p> <p>2876.0100: 100 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

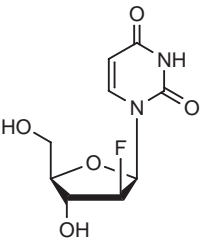
Product Number	Product	Order number / Unit
2877	<p>α-FEAU</p> <p>Reference standard for byproduct of [^{11}C]FEAU and [^{18}F]FEAU synthesis (2'-[^{18}F]Fluoro-5-ethyl-1-α-D-arabinofuranosyluracil) (2'-Fluoro-5-[^{11}C]ethyl-1-α-D-arabinofuranosyluracil)</p> <p>$\text{C}_{11}\text{H}_{15}\text{FN}_2\text{O}_5$ Molar Mass: 274.25</p> <p>CAS-RN not yet assigned</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{19}F NMR spectra</p> <p>Chemical Name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-α-D-arabinofuranosyl)-5-ethyl-</p> <p>Synonymes: α-FEAU; α-D-FEAU; 1-(2-Deoxy-2-fluoro-α-D-arabinofuranosyl)thymine</p> <p>Literature: Chou T.C. et al. Synthesis and biological effects of 2'-Fluoro-5-ethyl-1-beta-D-arabinofuranosyluracil. Antimicrob. Agents Chemother. 1987, 31, 1355-1358</p>	<p>2877.0001: 1 mg per vial</p> <p>2877.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

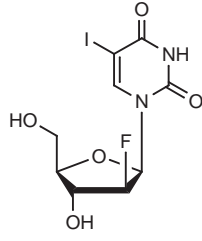
Product Number	Product	Order number / Unit
2878	<p>FMAU</p> <p>Reference standard for [¹⁸F]FMAU and [¹¹C]FMAU</p> <p>C₁₀H₁₃FN₂O₅ Molar Mass: 260.22</p> <p>[69256-17-3]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-[2-deoxy-2-fluoro-β-D-arabinofuranosyl]-5-methyl-</p> <p>Synonyms: 1-(2-Fluoro-2-deoxy-β-D-arabinofuranosyl)thymine; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil; 2'-Fluoro-5-methyl-arabinosyluracil; 2'-Fluoro-5-methyl-β-D-arabinofuranosyluracil; 1-[(2R,3S,4R,5R)-3-Fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-methylpyrimidine-2,4-dione; 5-Methyl-1-[(2R,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione; 5-Methyl-1-(2-fluoro-2-deoxy-β-D-arabinofuranosyl)uracil; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione; β-FMAU; β-D-FMAU</p> <p>Literature: Mangner T.J. et al. Synthesis of 2'-deoxy-2'-[¹⁸F]fluoro-beta-D-arabinofuranosyl nucleosides, [¹⁸F]FAU, [¹⁸F]FMAU, [¹⁸F]FBAU, [¹⁸F]FIAU, as potential PET agents for imaging cellular proliferation. Nucl. Med. Biol. 2003, 30, 215-224. Alauddin M.M. et al. Direct comparison of radiolabeled probes FMAU, FHBG, and FHPG as PET imaging agents for HSV1-tk expression in a human breast cancer model. Mol. Imaging 2004, 3, 76-84. Alauddin M.M. et al. Synthesis and evaluation of 2'-deoxy-2'-¹⁸F-fluoro-5-fluoro-1-beta-D-arabinofuranosyluracil as a potential PET imaging agent for suicide gene expression. J. Nucl. Med. 2004, 45, 2063-2069</p>	<p>2878.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2879	<p>αFMAU</p> <p>Reference standard for byproduct of [¹⁸F]FMAU and [¹¹C]FMAU synthesis (2'-deoxy-2'-fluoro-5-methyl-1-β-D-arabinofuranosyluracil)</p> <p>C₁₀H₁₃FN₂O₅ Molar Mass: 260.22</p> <p>[97672-34-9]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-[2-deoxy-2-fluoro-α-D-arabinofuranosyl]-5-methyl-</p> <p>Synonyms: α-FMAU, α-D-FMAU</p> <p>Literature: Mangner T.J. et al. Synthesis of 2'-deoxy-2'-[¹⁸F]fluoro-beta-D-arabinofuranosyl nucleosides, [¹⁸F]FAU, [¹⁸F]FMAU, [¹⁸F]FBAU, [¹⁸F]FIAU, as potential PET agents for imaging cellular proliferation. Nucl. Med. Biol. 2003, 30, 215-224. Alauddin M.M. et al. Direct comparison of radiolabeled probes FMAU, FHBG, and FHPG as PET imaging agents for HSV1-tk expression in a human breast cancer model. Mol. Imaging 2004, 3, 76-84. Alauddin M.M. et al. Synthesis and evaluation of 2'-deoxy-2'-¹⁸F-fluoro-5-fluoro-1-beta-D-arabinofuranosyluracil as a potential PET imaging agent for suicide gene expression. J. Nucl. Med. 2004, 45, 2063-2069</p>	<p>2879.0002: 2 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

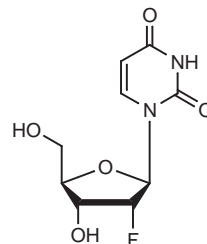
Product Number	Product	Order number / Unit
2880	<p>FTRU</p> <p>Precursor for 5-^{[131]I}Iodo- and 5-^{[211]At}Astato-1-(2-deoxy-2-fluoro-β-D-ribofuranosyl)uracil</p> <p>Precursor for ^{[76]Br}Bromo-2'-fluoro-2'-deoxyuridine</p> <p>C₁₂H₁₉FN₂O₅Sn Molar Mass: 409.00</p> <p>[336881-26-6]</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1(2-deoxy-2-fluoro-β-D-ribofuranosyl)-5-(trimethylstannyl)-</p> <p>Synonyms: 2'-Deoxy-2'-fluoro-5-(trimethylstannyl)-uridine; FTAU-epimer</p> <p>Literature: Vaidyanathan G. et al. Preparation of 5-^{[131]I}Iodo- and 5-^{[211]At}Astato-1-(2-Deoxy-2-Fluoro-beta-D-Arabinofuranosyl)Uracil by a Halodestannylation Reaction. Nucl. Med. Biol. 1998, 25, 487-496.</p> <p>Lu L. et al. Synthesis of ^{[76]Br}Bromfluorodeoxyuridine and Its Validation with Regard to Uptake, DNA Incorporation, and Excretion Modulation in rats. J. Nucl. Med. 2000, 41, 1746-1752.</p>	<p>2880.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2890	<p>FTAU</p> <p>Precursor for 5-^{[131]I}FIAU and 5-^{[211]At}FAAU</p> <p>C₁₂H₁₉FN₂O₅Sn Molar Mass: 409.00</p> <p>[213136-14-2]</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-(trimethylstannyl)-</p> <p>Synonyms: 5-Trimethylstannyl-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)uracil; FTAU</p> <p>Literature: Vaidyanathan G. et al. Preparation of 5-^{[131]I}Iodo- and 5-^{[211]At}Astato-1-(2-Deoxy-2-Fluoro-beta-D-Arabinofuranosyl)Uracil by a Halodestannylation Reaction. Nucl. Med. Biol. 1998, 25, 487-496.</p> <p>Vaidyanathan G. et al. Preparation of 5-^{[131]I}Iodo- (^{[131]I}FIAU) and 5-^{[211]At}Astato-1-(2-Deoxy-2-Fluoro-beta-D-Arabinofuranosyl)Uracil (^{[211]At}FAAU) by a Halodestannylation Reaction. XIIth International Symposium on Radiopharmaceutical Chemistry, Uppsala, Sweden, 1997, 91-93.</p>	<p>2890.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2900	<p>FAU</p> <p>Reference standard for 2'-[¹⁸F]FAU</p> <p>Precursor for [¹²⁴I]FAU, [¹²⁵I]FAU</p> <p>C₉H₁₁FN₂O₅ Molar Mass: 246.19</p> <p>[69123-94-0]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)uracil</p> <p>Synonyms: 2'-Fluoro-2'-deoxyuracyl-β-D-arabinofuranoside; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)uracil</p> <p>Literature: Sterzycki R.Z. et al. Synthesis and Anti-HIV Activity of Several 2'-Fluoro-Containing Pyrimidine Nucleosides. J. Med. Chem. 1990, 33, 2150-2157.</p> <p>Hughes J. A. et al. Preparation of [¹¹C]Thymidine and [¹¹C]2'-Arabino-2'-Fluoro-beta-5-Methyl-Uridine (FMAU) Using a Hollow Fiber Membran Bioreactor System. J. Labelled Compd. Radiopharm. 1995, 36, 1133-1145.</p> <p>Conti P. S. et al. Synthesis of 2'-Fluoro-5-[¹¹C]Methyl-1-beta-D-Arabinofuranosyluracil ([¹¹C]FMAU): A Potential Nucleoside Analog for In Vivo Study of Cellular Proliferation with PET. Nucl. Med. Biol. 1995, 22, 783-789.</p>	<p>2900.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2910	<p>FIAU</p> <p>Reference standard for [^{124/125/131}I]FIAU</p> <p>C₉H₁₀FIN₂O₅ Molar Mass: 372.09</p> <p>[69123-98-4]</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodo-</p> <p>Synonyms: Fialuridine; 2'-Fluoro-5-iodouracil; 1-(2'-Deoxy-2'-fluoro-β-D-arabinofuranosyl)-5-iodouracil; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodouracil; 5-Iodo-2'-fluoroarauracil; Fluoroiodoarauracil; NSC 678514</p> <p>Literature: Watanabe K.A. et al. Nucleosides. 110. Synthesis and Antiherpes Virus Activity of Some 2'-Fluoro-2'-deoxyarabinofuranosyl-pyrimidine Nucleosides. J. Med. Chem. 1979, 22, 21-24.</p> <p>Sterzycki R.Z. et al. Synthesis and Anti-HIV Activity of Several 2'-Fluoro-Containing Pyrimidine Nucleosides. J. Med. Chem. 1990, 33, 2150-2157.</p> <p>Hughes J.A. et al. Preparation of [¹¹C]Thymidine and [¹¹C]2'-Arabino-2'-Fluoro-beta-5-Methyl-Uridine (FMAU) Using a Hollow Fiber Membran Bioreactor System. J. Labelled Compd. Radiopharm. 1995, 36, 1133-1145.</p> <p>Conti P.S. et al. Synthesis of 2'-Fluoro-5-[¹¹C]Methyl-1-beta-D-Arabinofuranosyluracil ([¹¹C]FMAU): A Potential Nucleoside Analog for In Vivo Study of Cellular Proliferation with PET. Nucl. Med. Biol. 1995, 22, 783-789.</p>	<p>2910.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
2920	FUdR Reference standard for 2'-[¹⁸F]FUdR $C_9H_{11}FN_2O_5$ Molar Mass: 246.19 [784-71-4] Colourless powder packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Uridine, 2'-deoxy-2'-fluoro- Synonyms: 1-(2-Deoxy-2-fluoro-β-D-ribofuranosyl)uracil; 2'-Deoxy-2'-fluorouridine; 2'-Fluoro-2'-deoxy-uridine; 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-ribofuranosyl)	2920.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



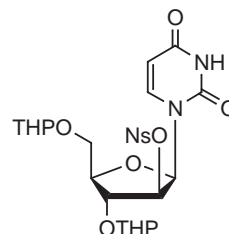
Literature:

Abrams D.N. et al. The Synthesis of Radiolabelled 1-(2'-Fluoro-2'-deoxy-beta-D-ribofuranosyl)uracil and 1-(2'-Chloro-2'-deoxy-beta-D-ribofuranosyl)uracil. Int. J. Appl. Radiat. Isot. 1985, 36, 233-238.

Codington J.F. et al. Nucleosides. XIX. Structure of the 2'-Halogeno-2'-Deoxypyrimidine Nucleosides. J. Org. Chem. 1964, 29, 564-569.

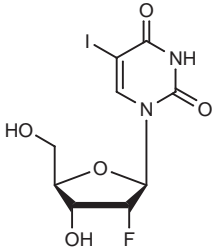
Verheyden J.P.H. et al. Synthesis of Some Pyrimidine 2'-Amino-2'-deoxynucleosides. J. Org. Chem. 1971, 36, 250-254.

Product Number	Product	Order number / Unit
2921	Di-THP-nosyl-AUR Precursor for 2'-Deoxy-2'-[¹⁸F]Fluorouridine $C_{25}H_{31}N_3O_{12}S$ Molar Mass: 579.59 [1000816-92-1] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-p-nitrophenylsulfonyloxy-β-D-arabinofuranosyl) Synonyms: 3',5'-di-O-tetrahydropyranyl-2'-O-nosyl-1-β-D-arabinofuranosyluracil; 3',5'-di-O-tetrahydropyranyl-2'-O-p-nitrophenylsulphonyl-1-β-D-arabinofuranosyluracil; 3',5'-di-O-THP-2'-O-nosyl-AUR	2921.0010: 10 mg per vial 2921.0020: 20 mg per vial 2921.0030: 30 mg per vial Please inquire for customized filling and bulk quantities.

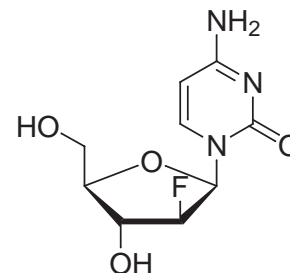


Literature:

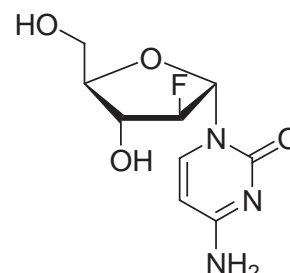
Kang S.H. et al. Simple and High radiochemical yield synthesis of 2'-Deoxy-2'-[¹⁸F]fluorouridine via a new nosylate precursor. J. Labelled Compd. Radiopharm. 2006, 49, 1237-1246.

Product Number	Product	Order number / Unit
2922	<p>FIRU</p> <p>Reference standard for 5-[¹²³/¹²⁵I]FIRU</p> <p>C₉H₁₀FIN₂O₅ Molar Mass: 372.09</p> <p>[55612-21-0]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-ribofuranosyl)-5-iodo-</p> <p>Synonymes: 1-(2'-Fluoro-2'-desoxy-β-D-ribofuranosyl)-5-iodouracil; 2'-deoxy-2'-fluoro-5-iodo-uridine</p> <p>Literature: Morin K.W. et al. Cytotoxicity and cellular uptake of pyrimidine nucleosides for imaging herpes simplex type-1 thymidine kinase (HSV-1 TK) expression in mammalian cells. Nucl. Med. Biol. 2004, 31, 623-630.</p>	<p>2922.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

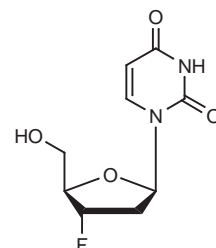
Product Number	Product	Order number / Unit
2930	<p>FAC</p> <p>Reference standard for [¹⁸F]FAC</p> <p>1-(2'-deoxy-2'-[¹⁸F]fluoroarabinofuranosyl)cytosine</p> <p>C₉H₁₂FN₃O₄ Molar Mass: 245.21</p> <p>[56632-83-8]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2(1H)-Pyrimidinone, 4-amino-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-</p> <p>Synonyms: 1-(2'-Deoxy-2'-fluoro-β-D-arabinofuranosyl)cytosine; 4-Amino-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-2(1H)-pyrimidinone; 4-amino-1-[(2R,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidin-2-one; 4-Amino-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-2(1H)-pyrimidinone; β-FAC; β-D-FAC</p> <p>Literature: Radu C.G. et al. Molecular imaging of lymphoid organs and immune activation by positron emission tomography with a new [¹⁸F]-labeled 2'-deoxycytidine analog. Nature Medicine 2008, 14, 783-788.</p>	<p>2930.0002: 2 mg per vial</p> <p>2930.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>



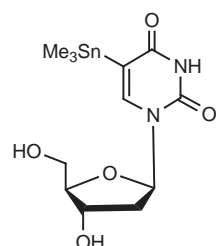
Product Number	Product	Order number / Unit
2931	<p>αFAC</p> <p>Analytical standard for validation of [¹⁸F]FAC</p> <p>1-(2'-deoxy-2'-[¹⁸F]fluoroarabinofuranosyl)cytosine</p> <p>C₉H₁₂FN₃O₄ Molar Mass: 245.21</p> <p>CAS-RN not yet assigned</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: 2(1H)-Pyrimidinone, 4-amino-1-(2-deoxy-2-fluoro-α-D-arabinofuranosyl)-</p> <p>Synonyms: 1-(2'-Deoxy-2'-fluoro-α-D-arabinofuranosyl)cytosine; 4-Amino-1-(2-deoxy-2-fluoro-α-D-arabinofuranosyl)-2(1H)-pyrimidinone; 4-amino-1-[(2S,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidin-2-one; 4-Amino-1-(2-deoxy-2-fluoro-α-D-arabinofuranosyl)-2(1H)-pyrimidinone; α-FAC; α-D-FAC</p> <p>Literature: Radu C.G. et al. Molecular imaging of lymphoid organs and immune activation by positron emission tomography with a new [¹⁸F]-labeled 2'-deoxycytidine analog. Nature Medicine 2008, 14, 783-788.</p>	<p>2931.0002: 2 mg per vial</p> <p>2931.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>



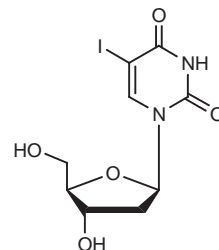
Product Number	Product	Order number / Unit
2940	<p>3'-Fluoro-2',3'-dideoxyuridine Precursor for 5-[¹⁸F]FLIU Precursor for 5-[¹⁸F]FLFU $C_9H_{11}FN_2O_4$ Molar Mass: 230.19 [41107-56-6] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Uridine, 2',3'-dideoxy-3'-fluoro- Synonyms: 1-(2,3-Dideoxy-3-fluoro-β-D-ribofuranosyl)uracil; 2',3'-Dideoxy-3'-fluorouridine Literature: Mentel R. et al. Inhibitory activity of 3'-fluoro-2' deoxythymidine and related nucleoside analogs against adenoviruses in vitro. Antiviral Res. 1997, 34, 113-119. Matthes E. et al. Inhibition of hepatitis B virus production by modified 2',3'-dideoxythymidine and 2',3'-dideoxy-5-methylcytidine derivatives. In vitro and in vivo studies. Biochem. Pharmacol. 1992, 43, 1571-1577.</p>	<p>2940.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>



Product Number	Product	Order number / Unit
2948	<p>5-Trimethylstannyl-2'-deoxyuridine Precursor for [¹²³I]IUdR (5-[¹²³I]Iodo-2'-deoxyuridine) $C_{12}H_{20}N_2O_5Sn$ Molar Mass: 391.01 [146629-34-7] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: Uridine, 2'-deoxy-5-(trimethylstannyl)- Synonyms: 1-(4-Hydroxy-5-hydroxymethyl-tetrahydro-furan-2-yl)-5-trimethylstannanyl-1H-pyrimidine-2,4-dione; 1-(2-Deoxy-β-D-ribofuranosyl)-5-trimethylstannyl-uracil; 2'-Deoxy-5-trimethylstannyl-uridine Literature: Kassis A. I. 5-([¹²³I]/[¹²⁵I])Iodo-2'-deoxyuridine for cancer diagnosis and therapy. J. Nucl. Med, Allied Sci. 1990, 34, 299-303. Harrison et al. Bladder cancer-[¹²³I]IUdR imaging in preparation for [¹²⁵I]IUdR therapy. J. Nucl. Med. 1994, 35, 144P. Koziorowski J. et al. Simple preparation of ⁷⁶Br-, ¹²³I-, and ²¹¹At-labeled 5-halo-2'-deoxyuridine. J. Radioanal. Nucl. Chem. 1997, 219, 127-128.</p>	<p>2948.0010: 10 mg per vial 2948.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p>



Product Number	Product	Order number / Unit
2949	<p>IUDR</p> <p>Reference standard for [¹²³I]IUDR and [¹²⁵I]IUDR (5-[¹²³I]Iodo-2'-deoxyuridine, 5-[¹²⁵I]Iodo-2'-deoxyuridine)</p> <p>C₉H₁₁IN₂O₅ Molar Mass: 354.1</p> <p>[54-42-2]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Uridine, 2'-deoxy-5-iodo-</p> <p>Synonyms: 1-(2-Deoxy-β-D-ribofuranosyl)-5-iodouracil; 2'-Deoxy-5-iodouridine; 5-Iodo-2'-deoxyuridine; 5-Iodo-2'-desoxyuridine; (+)-5-Iodo-2'-deoxyuridine; 5-Iododeoxyuridine; 5-Iodouracil deoxyriboside; 5IUDR; 1-(4-Hydroxy-5-hydroxymethyl-tetrahydro-furan-2-yl)-5-iodo-1H-pyrimidine-2,4-dione; Idoxuridine; IDU; Dendrid; Emanil</p>	<p>2949.0010: 10 mg per vial 2949.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p>



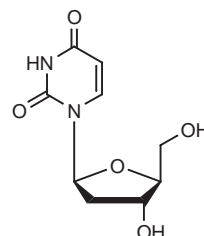
Literature:

Kassis A. I. 5-([¹²³I]/[¹²⁵I])Iodo-2'-deoxyuridine for cancer diagnosis and therapy. J. Nucl. Med, Allied Sci. 1990, 34, 299-303.

Harrison et al. Bladder cancer-[¹²³I]IUDR imaging in preparation for [¹²⁵I]IUDR therapy. J. Nucl. Med. 1994, 35, 144P.

Koziorowski J. et al. Simple preparation of ⁷⁶Br-, ¹²³I-, and ²¹¹At-labeled 5-halo-2'-deoxyuridine. J. Radioanal. Nucl. Chem. 1997, 219, 127-128.

Product Number	Product	Order number / Unit
2950	<p>2'-Deoxy-L-uridine</p> <p>C₉H₁₂N₂O₅ Molar Mass: 228.07</p> <p>[31501-19-6]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-β-L-erythro-pentofuranosyl)</p> <p>Synonyms: 1-(2'-Deoxy-β-L-erythro-pentofuranosyl)uracil; 2'-Deoxy-L-uridine; β-L-2'-deoxyuridine</p>	<p>2950.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>



Literature:

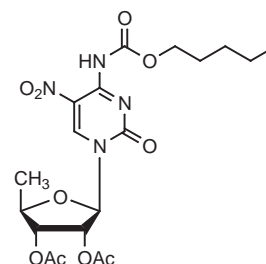
Spadari S. et al. L-Thymidine is phosphorylated by herpes simplex virus type 1 thymidine kinase and inhibits viral growth. J. Med. Chem. 1992, 35, 4214-4220.

Maga G. et al. Lack of stereospecificity of suid pseudorabies virus thymidine kinase. Biochem. J. 1993, 294, 381-385.

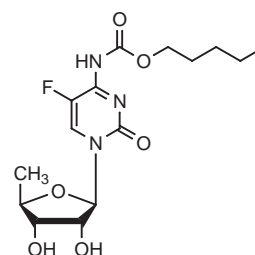
Kouni M.H. et al. Effects of modifications in the pentose moiety and conformational changes on the binding of nucleoside ligands to uridine phosphorylase from Toxoplasma gondii. Biochem. Pharmacol. 1996, 51, 1687-1700.

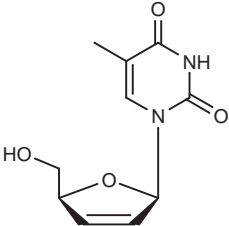
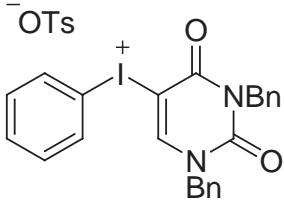
Verri A. et al. Lack of enantiospecificity of human 2'-deoxycytidine kinase: relevance for the activation of beta.-L-deoxycytidine analogs as antineoplastic and antiviral agents. Mol. Pharmacol. 1997, 51, 132-138.

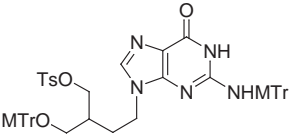
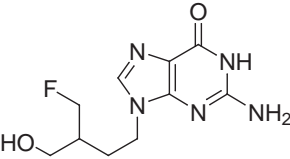
Product Number	Product	Order number / Unit
2952	Nitro-Xeloda Precursor for [¹⁸F]Xeloda $C_{19}H_{26}N_4O_{10}$ Molar Mass: 470.43 [865474-03-9] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Cytidine, 5'-deoxy-5-nitro-N-[(pentoxycarbonyl)-, 2',3'-diacetate Synonymes: 2',3'-Di-O-acetyl-5'-deoxy-5-nitro-N4-(pentyloxycarbonyl)cytidine; Nitroxeloda Literature: Xiangshu F. et al. Synthesis of [¹⁸ F]Xeloda as a novel potential PET radiotracer for imaging enzymes in cancers. Nucl. Med. Biol. 2004, 31, 1033-1041.	2952.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

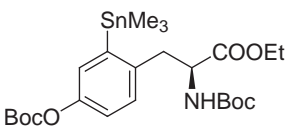
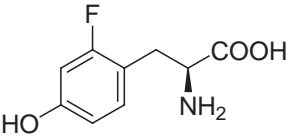


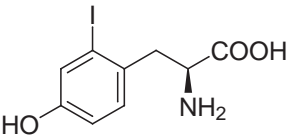
Product Number	Product	Order number / Unit
2953	Xeloda Reference standard for [¹⁸F]Xeloda $C_{15}H_{22}FN_3O_6$ Molar Mass: 359.35 [154361-50-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra; HPLC Chemical Name: CA index names: Cytidine, 5'-deoxy-5-fluoro-N-[(pentyloxy)carbonyl]-; Carbamic acid, [1-(5-deoxy-β-D-ribofuranosyl)-5-fluoro-1,2-dihydro-2-oxo-4-pyrimidinyl]-, pentyl ester Synonymes: 5'-Deoxy-5-fluoro-N4-(pentyloxycarbonyl)cytidine; 5-Deoxy-5-fluoro-N-[(pentyloxy)carbonyl]cytidine; 5'-Deoxy-5-fluorocytisine; Pentyl [1-(3,4-dihydroxy-5-methyl-oxolan-2-yl)-5-fluoro-2-oxo-pyrimidin-4-yl]aminoformate; Capecitabine; Capecitibine; Capecytidine; Capiibine; Captabin; Ro 09-1978 Literature: Xiangshu F. et al. Synthesis of [¹⁸ F]Xeloda as a novel potential PET radiotracer for imaging enzymes in cancers. Nucl. Med. Biol. 2004, 31, 1033-1041.	2953.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

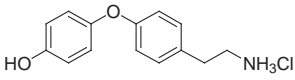


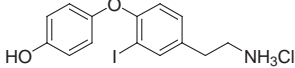
Product Number	Product	Order number / Unit
2954	<p>2',3'-Didehydro-3'-deoxythymidine Reference standard for byproduct of [¹⁸F]FLT synthesis (3'-Deoxy-3'-[¹⁸F]fluorothymidine) $C_{10}H_{12}N_2O_4$ Molar Mass: 224.21 [3056-17-5] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Thymidine, 2', 3'-didehydro-3'-deoxy- Synonyms: 3'-Deoxy-2',3'-didehydrothymidine; 3'-deoxythymidin-2'-ene; 1-((2R,5S)-5-Hydroxymethyl-2,5-dihydro-furan-2-yl)-5-methyl-1H-pyrimidine-2,4-dione; 1-[2,3-dideoxy-β-D-glycero-pent-2-enofuranosyl]thymine; BMY 27857; D 4T; D4T (nucleoside); NSC 163661; Sanilvudine; Stavir; Stavudine; Zerit</p> <p>Literature: Cleij M.C. et al. An improved synthesis of 3'-Deoxy-3'-[¹⁸F]Fluorothymidine ([¹⁸F]FLT) and the fate of the precursor, 2,3'-Anhydro-5-O-(4,4'-dimethoxytrityl)-thymidine. J. Labelled Compd. Radiopharm. 44, Suppl. 1, 2001, 871-873.</p>	<p>2954.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
2958	<p>5-Fluorouracil precursor Precursor for [¹⁸F]-5-FU ([¹⁸F]-5-fluorouracil) $C_{31}H_{27}IN_2O_5S$ Molar Mass: 666.53 [219638-33-2] (cation) Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name (cation only): Iodonium, phenyl[1,2,3,4-tetrahydro-2,4-dioxo-1,3-bis(phenylmethyl)-5-pyrimidinyl]-</p> <p>Synonyms: (1,3-dibenzyl-2,4-dioxo-1,2,3,4-tetrahydrophyrimidin-5-yl)(phenyl)iodonium tosylate; phenyl(N,N-dibenzyluracil)iodonium tosylate; Iodonium, phenyl[1,2,3,4-tetrahydro-2,4-dioxo-1,3-bis(phenylmethyl)-5-pyrimidinyl]-, salt with 4-methylbenzenesulfonic acid</p> <p>Literature: Lee C.L. et al. Synthesis and biological evaluation of [F-18]5-fluorouracil using nucleophilic F-18 substitution. J. Nucl. Med. 2007, 48 (S2), 181.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

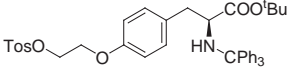
Product Number	Product	Order number / Unit
2960	<p>Tosyl-FHBG</p> <p>Precursor for [¹⁸F]FHBG</p> <p>(9-(4-[¹⁸F]Fluoro-3-[hydroxymethyl]butyl)guanine)</p> <p>C₅₇H₅₃N₅O₇S Molar Mass: 952.13</p> <p>[206067-84-7]</p> <p>Off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 6H-Purin-6-one, 1,9-dihydro-9-[3-[[[(4-methoxyphenyl)diphenylmethoxy]methyl]-4-[[[(4-methylphenyl)sulfonyl]oxy]butyl]-2-[[[(4-methoxyphenyl)diphenylmethyl]amino]-</p> <p>Synonyms: N2-(p-Anisyl)diphenylmethyl)-9-[(4-(p-toluolsulfonyloxy))-3-p-anisyl)diphenylmethoxy-methylbutyl]guanine; 1,9-dihydro-9-N2-(p-Anisyl)diphenylmethyl)-9-[(4-(p-toluolsulfonyloxy))-3-p-anisyl)diphenylmethoxy-methylbutyl]guanine; 6H-Purin-6-one, 1,9-dihydro-9-[3-[[[(4-methoxyphenyl)diphenylmethoxy]methyl]-4-[[[(4-methylphenyl)sulfonyl]oxy]butyl]-2-[[[(4-methoxyphenyl)diphenylmethyl]amino]-</p> <p>Literature: Alauddin M.M. et al. Synthesis and preliminary evaluation of 9-(4-[¹⁸F]-fluoro-3-hydroxymethylbutyl)guanine ([¹⁸F]FHBG): a new potential imaging agent for viral infection and gene therapy using PET. Nucl. Med. Biol. 1998, 25, 175-18</p>	<p>2960.0003: 3 mg per vial</p> <p>2960.0004: 4 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 
2970	<p>FHBG</p> <p>Reference standard for [¹⁸F]FHBG</p> <p>(9-(4-[¹⁸F]Fluoro-3-[hydroxymethyl]butyl)guanine)</p> <p>C₁₀H₁₄FN₅O₂ Molar Mass: 255.25</p> <p>[206067-83-6]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 90 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 6H-Purin-6-one, 2-amino-9-[4-(fluoro)-3-(hydroxymethyl)butyl]-1,9-dihydro</p> <p>Synonyms: 9-[(4-Fluoro)-3-hydroxymethylbutyl]guanine; 9-(4-fluoro-3-[hydroxymethyl]butyl)guanine</p> <p>Literature: Yaghoubi S.S. et al. Direct correlation between positron emission tomographic images of two reporter genes delivered by two distinct adenoviral vectors. Gene Therapy 2001, 8, 1072-1080.</p> <p>Alauddin M.M. et al. Synthesis and preliminary evaluation of 9-(4-[¹⁸F]-fluoro-3-hydroxymethylbutyl)guanine ([¹⁸F]FHBG): a new potential imaging agent for viral infection and gene therapy using PET. Nucl. Med. Biol. 1998, 25, 175-18</p>	<p>2970.0002: 2 mg per vial</p> <p>2970.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

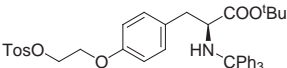
Product Number	Product	Order number / Unit
3000	<p>N,O-Di-Boc-2-TMSn-L-tyrosine ethyl ester Precursor for 2-[¹⁸F]Fluoro-L-tyrosine</p> <p>C₂₄H₃₉NO₇Sn Molar Mass: 572.28 [400885-40-7] Yellowish, highly viscous oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra; HPLC</p> <p>Chemical Name: CA index name: L-Tyrosine, N-[(1,1-dimethylethoxy)carbonyl]-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate (ester)</p> <p>Synonyms: N,O-Di-Boc-2-trimethylstannyl-L-p-tyrosine ethyl ester; 2-TT</p> <p>Literature: Hess E. et al. Synthesis of 2-[¹⁸F]fluoro-L-tyrosine via regiospecific fluoro-de-stannylation. Appl. Radiat. Isot. 2002, 57, 185-191. Hess E. Production of [¹⁸F]fluorine via the 18O(p,n)¹⁸F nuclear reaction and application in the ¹⁸F-labelling of aromatic amino acids. Berichte des Forschungszentrums Jülich 2001, Juel-3873 i-ix, 1-144. Nef W.W. et al. N-acetyl-2-(trimethyl-stannyl)-4-butoxycarbonyloxy-L-phenylalaninethylester (4) for the production of 2-fluorotyrosine. Eur. J. Nucl. Med. 1997, 24, 1056.</p>	<p>3000.0060: 60 mg per vial Please inquire for customized filling and bulk quantities.</p> 
3010	<p>2-Fluoro-tyrosine Reference standard for 2-[¹⁸F]Fluoro-L-tyrosine</p> <p>C₉H₁₀FNO₃ Molar Mass: 199.18 [78709-81-6] Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: Propionic acid, 2-amino-3-(4-hydroxy-2-fluoro-phenyl), (2S)</p> <p>Synonyms: 2-Fluoro-L-p-tyrosine; 2'-Fluoro-L-tyrosine; 2-Fluoro-L-tyrosine; 2-Fluoro-tyrosine; L-2- Fluoro-tyrosine; 2-FT</p> <p>Literature: Coenen H.H. et al. Cerebral metabolism of L-[2-¹⁸F]fluorotyrosine, a new PET tracer of protein synthesis. J. Nucl. Med. 1989, 30, 1367-72. Ishiwata K. et al. Re-evaluation of amino acid PET studies: Can the protein synthesis rates in brain and tumor tissues be measured in vivo. J. Nucl. Med. 1993, 34, 1936-43.</p>	<p>3010.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

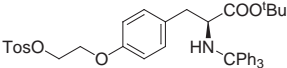
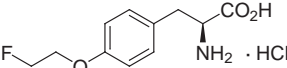
Product Number	Product	Order number / Unit
3020	<p>2-Iodo-tyrosine Precursor for 2-[¹²³I]Iodo-L-tyrosine</p> <p>C₉H₁₀INO₃ Molar Mass: 307.09 [78853-38-0] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % (HPLC) Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: L-Tyrosine, 2-iodo- Synonymes: Propionic acid, 2-amino-3-(4-hydroxy-2-iodo-phenyl), (2S); L-2-Iodo-p-tyrosine; 2-IT Literature: Mertens J. et al. Radioiodo-D-2-I-Phenylalanine a New Tumor Specific Tracer for Diagnosis and Systemic Radionuclide Therapy. Eur. J. Nucl. Med. 2004, 31, S220, 68. Lahoutte T. et al. Comparative Biodistribution of Iodinated Amino Acids in Rats: Selection of the Optimal Analog for Oncologic Imaging Outside the Brain J. Nucl. Med. 2003, 44, 1489-1494.</p>	<p>3020.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

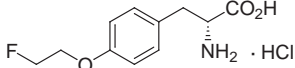
Product Number	Product	Order number / Unit
3035	Thyronamine Hydrochloride Metabolite of thyroid hormone $C_{14}H_{16}ClNO_2$ Molar Mass: 265.74 [5221-18-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum; HPLC Chemical Name: CA index name: Phenol, 4-[4-(2-aminoethyl)phenoxy]-, hydrochloride (1:1) Synonyms: T0AM; Thyronamine Hydrochloride; 4-(4-Hydroxyphenoxy)phenethylamine Hydrochloride; 4-[4-(2-Amino-ethyl)-phenoxy]-phenol Hydrochloride Literature: Hart M.E. et al. Trace Amine-Associated Receptor Agonists: Synthesis and Evaluation of Thyronamines and Related Analogues. J. Med. Chem. 2006, 49, 1101-1112.	Please inquire for customized filling and bulk quantities. 

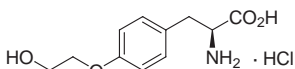
Product Number	Product	Order number / Unit
3036	3-Iodothyronamine Hydrochloride Metabolite of thyroid hormone $C_{14}H_{15}ClINO_2$ Molar Mass: 391.63 [788824-64-6] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum; HPLC Chemical Name: CA index name: Phenol, 4-[4-(2-aminoethyl)-2-iodophenoxy]-, hydrochloride (1:1) Synonyms: T1AM; 3-Iodothyronamine Hydrochloride; 4-[4-(2-Aminoethyl)-2-iodophenoxy]phenol Hydrochloride Literature: Hart M.E. et al. Trace Amine-Associated Receptor Agonists: Synthesis and Evaluation of Thyronamines and Related Analogues. J. Med. Chem. 2006, 49, 1101-1112.	Please inquire for customized filling and bulk quantities. 

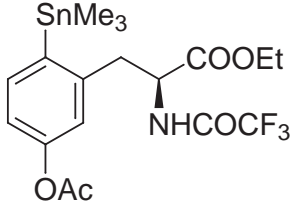
Product Number	Product	Order number / Unit
3050	<p>TET</p> <p>Precursor for [¹⁸F]FET (O-(2-[¹⁸F]Fluoroethyl)-L-tyrosine)</p> <p>C₄₁H₄₃NO₆S Molar Mass: 677.85</p> <p>[478037-15-9]</p> <p>Colourless or nearly colourless solid or foam packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: L-Tyrosine, O-[2-[[[(4-methylphenyl)sulfonyl]oxy]ethyl]-N-(triphenylmethyl)-, 1,1-dimethylethyl ester</p> <p>Synonyms: L-Tyrosine, O-(2-tosyloxyethyl)-N-trityl, tert-butyl ester; (2S)-O-(2'-tosyloxyethyl)-N-trityl-tyrosine-tert-butyl ester</p> <p>Literature: Hamacher K. et al. Efficient routine Production of the ¹⁸F-labelled amino acid O-(2-[¹⁸F]fluoroethyl)-L-tyrosine. Appl. Radiat. Isotop. 2002, 57, 853-856.</p>	<p>3050.0012: 12 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

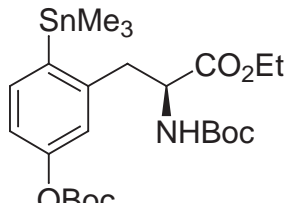
Product Number	Product	Order number / Unit
3051	<p>TET (GMP)</p> <p>Precursor for [¹⁸F]FET (O-(2-[¹⁸F]Fluoroethyl)-L-tyrosine)</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₄₁H₄₃NO₆S Molar Mass: 677.85</p> <p>[478037-15-9]</p> <p>Colourless or nearly colourless solid or foam packaged in clear glass vials (10 ml headspace)</p> <p>Purity: ≥ 98 %</p> <p>Certificates: CoA with NMR and IR spectra (identity); optical rotation (identity); HPLC (purity); GC (residual solvents); microbiology test</p> <p>Chemical Name: CA index name: L-Tyrosine, O-[2-[[[(4-methylphenyl)sulfonyl]oxy]ethyl]-N-(triphenylmethyl)-, 1,1-dimethylethyl ester</p> <p>Synonyms: L-Tyrosine, O-(2-tosyloxyethyl)-N-trityl, tert-butyl ester; (2S)-O-(2'-tosyloxyethyl)-N-trityl-tyrosine-tert-butyl ester</p> <p>Literature: Same as product number 3050.</p>	<p>3051.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

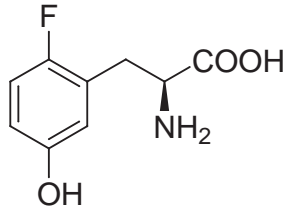
Product Number	Product	Order number / Unit
3052	<p>TET (GMP) Precursor for [¹⁸F]FET (O-(2-[¹⁸F]Fluoroethyl)-L-tyrosine) Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{41}H_{43}NO_6S$ Molar Mass: 677.85 [478037-15-9]</p> <p>Colourless or nearly colourless solid or foam packaged in dark glass crimp cap vials.</p> <p>Purity: ≥ 98 %</p> <p>Certificates: CoA with NMR and IR spectra (identity); optical rotation (identity); HPLC (purity); GC (residual solvents); microbiology test</p> <p>Chemical Name: CA index name: L-Tyrosine, O-[2-[[[4-methylphenyl)sulfonyl]oxy]ethyl]-N-(triphenylmethyl)-, 1,1-dimethylethyl ester</p> <p>Synonyms: L-Tyrosine, O-(2-tosyloxyethyl)-N-trityl, tert-butyl ester; (2S)-O-(2'-tosyloxyethyl)-N-trityl-tyrosine-tert-butyl ester</p> <p>Literature: Same as product number 3050.</p>	<p>3052.0005: 5 mg per vial Please inquire for customized filling and bulk quantities.</p> 
3061	<p>FET hydrochloride Reference standard for [¹⁸F]FET (O-(2-[¹⁸F]Fluoroethyl)-L-tyrosine) hydrochloride $C_{11}H_{14}FNO_3 \cdot HCl$ Molar Mass: 263.69 [854750-33-7] (free base)</p> <p>Colourless or nearly colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: L-Tyrosine, O-(2-fluoroethyl)-; hydrochloride salt</p> <p>Synonyms: L-Tyrosine, O-(2-fluoroethyl)-, hydrochloride; (2S)-O-(2'-fluoroethyl)-tyrosine, hydrochloride; FET · HCl</p> <p>Literature: Hamacher K. et al. Efficient routine Production of the ¹⁸F-labelled amino acid O-(2-[¹⁸F]fluoroethyl)-L-tyrosine. Appl. Radiat. Isotop. 2002, 57, 853-856. Hamacher K. et al. Convenient synthesis of n.c.a. O-(2-[¹⁸F]fluoroethyl)-L-tyrosine. J. Labelled Compd. Radiopharm. 2001, 44, 855. Wester H.-J. et al. Synthesis and radiopharmacology of O-(2-[¹⁸F]fluoroethyl)-L-tyrosine for tumor imaging. J. Nucl. Med. 1999, 40, 205-212.</p>	<p>3061.0010: 10 mg per vial 3061.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

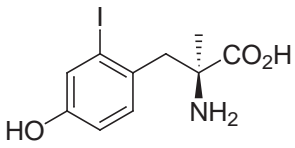
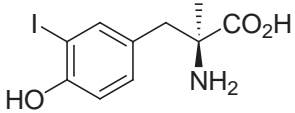
Product Number	Product	Order number / Unit
3071	<p>D-FET hydrochloride</p> <p>Reference standard for D-[¹⁸F]FET</p> <p>(O-(2-[¹⁸F]Fluoroethyl)-D-tyrosine) hydrochloride</p> <p>C₁₁H₁₄FN₂O₃ · HCl Molar Mass: 263.69</p> <p>[223463-90-9] (free base)</p> <p>Colourless or nearly colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: D-Tyrosine, O-(2-fluoroethyl)-, hydrochloride salt</p> <p>Synonymes: D-Tyrosine, O-(2-fluoroethyl)-, hydrochloride; (2R)-O-(2-fluoroethyl)-D-tyrosine, hydrochloride; D-FET · HCl</p> <p>Literature: Hamacher K. et al. Efficient routine Production of the ¹⁸F-labelled amino acid O-(2-[¹⁸F]fluoroethyl)-L-tyrosine. Appl. Radiat. Isotop. 2002, 57, 853-856. Hamacher K. et al. Convenient synthesis of n.c.a. O-(2-[¹⁸F]fluoroethyl)-L-tyrosine. J. Labelled Compd. Radiopharm. 2001, 44, 855. Wester H.-J. et al. Synthesis and radiopharmacology of O-(2-[¹⁸F]fluoroethyl)-L-tyrosine for tumor imaging. J. Nucl. Med. 1999, 40, 205-212.</p>	<p>3071.0010: 10 mg per vial 3071.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

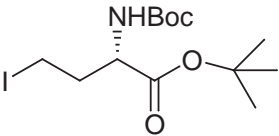
Product Number	Product	Order number / Unit
3081	<p>(L)-HET hydrochloride</p> <p>C₁₁H₁₅NO₄ · HCl Molar Mass: 261.70</p> <p>[481052-68-0] (free base)</p> <p>Colourless or nearly colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: L-Tyrosine, O-(2-hydroxyethyl)-, hydrochloride salt</p> <p>Synonymes: HET · HCl; (L)-HOET</p> <p>Literature: no literature reference available</p>	<p>3081.0010: 10 mg per vial 3081.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

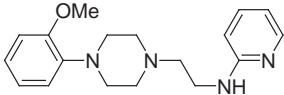
Product Number	Product	Order number / Unit
3100	<p>N-Trifluoroacetyl-5-acetoxy-2-trimethylstannyl-phenylalanine ethyl ester</p> <p>Precursor for [¹⁸F]FMT ([¹⁸F]Fluoro-m-L-tyrosine)</p> <p>C₁₈H₂₄F₃NO₅Sn Molar Mass: 510.09</p> <p>[148613-10-9]</p> <p>Nearly colourless oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: L-Phenylalanine, 5-(acetyloxy)-N-trifluoroacetyl-2-trimethylstannyl, ethyl ester</p> <p>Synonyms: N-trifluoroacetyl-3-acetyl-6-trimethylstannyl-L-m-tyrosine ethyl ester; N-trifluoroacetyl-3-acetoxy-6-trimethylstannyl-L-phenylalanine ethyl ester</p> <p>Literature: Namavari M. et al. Synthesis of 6-[¹⁸F] and 4-[¹⁸F]Fluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536. DeJesus O.T. et al. Evaluation of fluorinated m-tyrosine analogs as PET imaging agents of dopamine nerve terminals: comparison with 6-fluoroDOPA. J. Nucl. Med. 1997, 38, 630-636.</p>	<p>3100.0060: 60 mg per vial 3100.0090: 90 mg per vial Please inquire for customized filling and bulk quantities.</p> 

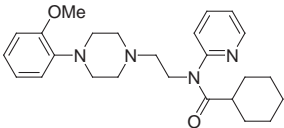
Product Number	Product	Order number / Unit
3110	<p>N,O-Di-Boc-2-TMSn-m-tyrosine ethyl ester</p> <p>Precursor for [¹⁸F]FMT ([¹⁸F]Fluoro-m-L-tyrosine)</p> <p>C₂₄H₃₉NO₇Sn Molar Mass: 572.28</p> <p>[845882-24-8]</p> <p>Nearly colourless oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: L-Phenylalanine, N-[(1,1-dimethylethoxy)carbonyl]-5-[[[(1,1-dimethylethoxy)carbonyl]oxy]-2-(trimethylstannyl)-], ethyl ester</p> <p>Synonyms: N-(tert-Butyloxycarbonyl)-5-tert-butyloxycarbonyloxy-2-trimethylstannyl-L-phenylalanine ethyl ester</p> <p>Literature: VanBrocklin H.F. et al. A new precursor for the preparation of 6-[¹⁸F]Fluoro-L-m-tyrosine (FMT): Efficient synthesis and comparison of radiolabeling. Appl. Radiat. Isot. 2004, 61, 1289-1294.</p>	<p>3110.0060: 60 mg per vial Please inquire for customized filling and bulk quantities.</p> 

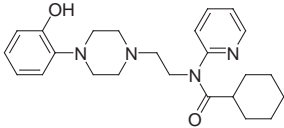
Product Number	Product	Order number / Unit
3130	<p>2-Fluoro-m-Tyrosine Reference standard for [¹⁸F]FMT ([¹⁸F]Fluoro-m-L-tyrosine) C₉H₁₀FNO₃ Molar Mass: 199.18 [148613-12-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: L-Phenylalanine, 2-fluoro-5-hydroxy- Synonyms: 2-Amino-3-(2-fluoro-5-hydroxy-phenyl)-propionic acid; 2-Fluoro-m-L-Tyrosine; 2-Fluoro-m-Tyrosine; 6-Fluoro-3-tyrosine; F-m-L-Tyrosine; FMT Literature: Namavari M. et al. Synthesis of 6-[¹⁸F] and 4-[¹⁸F]Fluoro-L-m-tyrosines via Regioselective Radiofluorodestannylation. Appl. Radiat. Isot. 1993, 44, 527-536. DeJesus O.T. et al. Effect of 6-fluoro-m-tyrosine on dopamine release and metabolism in rat striatum using in vivo microdialysis. Brain Research 2000, 884, 192-195. DeJesus O.T. et al. Affinities of dopamine analogs for monoamine granular and plasma membrane transporters: implications for PET dopamine studies. Life Sciences 1997, 60, 2399-2406.</p>	<p>3130.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

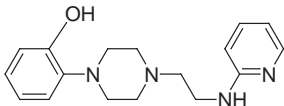
Product Number	Product	Order number / Unit
3180	<p>2-Iodo-α-methyl-p-tyrosine Reference standard for 2-[¹²³I]Iodo-α-methyl-p-L-tyrosine</p> <p>C₁₀H₁₂INO₃ Molar Mass: 321.11 CAS-RN not yet assigned Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % (HPLC) Certificates: CoA; ¹H NMR spectrum Chemical Name: L-Tyrosine, 2-iodo-α-methyl- Synonymes: Tyrosine, 2-iodo-α-methyl-, L-; L-2-Iodo-α-methyl-tyrosine; o-Iodo-α-methyl-L-tyrosine, 2-IAMT Literature: no literature reference available</p>	<p>3180.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
3190	<p>3-Iodo-α-methyl-p-tyrosine Reference standard for 3-[¹²³I]Iodo-α-methyl-L-tyrosine</p> <p>C₁₀H₁₂INO₃ Molar Mass: 321.11 [4298-17-3] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % (HPLC) Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: L-Tyrosine, 3-iodo-α-methyl- Synonymes: L-3-Iodo-α-methyl-p-tyrosine; m-Iodo-α-methyl-L-tyrosine; 3-IMT; 3-IAMT Literature: Lahoutte T. et al. Increased Tumor Uptake of 3-¹²³I-Iodo-L-α-Methyltyrosine After Preloading with Amino Acids: An In Vivo Animal Imaging Study. J. Nucl. Med. 2002, 43, 1201-1206. Weckesser M. et al. The role of L-3-I-123-iodine-α-methyl tyrosine -SPECT in cerebral gliomas. Nuklearmedizin 2000, 39, 233-240. Stöcklin G. et al. Direct n.c.a. Electrophilic Radioiodination of Tyrosine Analogues; Their in vivo Stability and Brain-Uptake in Mice. Appl. Radiat. Isot. 1994, 45, 929-935. Biersack H.J. et al. Imaging of Brain Tumors with L-3-[¹²³I]Iodo-α-Methyl Tyrosine and SPECT. J. Nucl. Med. 1989, 30, 110-112.</p>	<p>3190.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

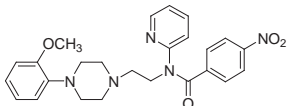
Product Number	Product	Order number / Unit
3191	<p>(S)-tert-Butyl 2-((tert-butoxycarbonyl) amino)-4-iodobutanoat</p> <p>Precursor for [5-¹¹C]-Glutamine</p> <p>C₁₃H₂₄INO₄ Molar Mass: 385.24 [161370-66-7] Pale yellow solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Butanoic acid, 2-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-iodo-, 1,1-dimethylethyl ester, (2S)- Synonymes: (S)-tert-Butyl 2-((tert-butoxycarbonyl) amino)-4-iodobutanoat Literature: Qu W. et al. Preparation and Characterization of L-[5-¹¹C]-Glutamine for Metabolic Imaging of Tumors. J. Nucl. Med. 2012, 53, 98-105. Qu W. et al. Synthesis of Optically Pure 4-Fluoro-Glutamines as Potential Metabolic Imaging Agents for Tumors. J. Am. Chem. Soc. 2011, 133, 1122-1133.</p>	<p>3191.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

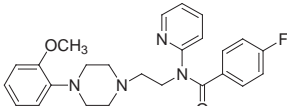
Product Number	Product	Order number / Unit
3200	<p>WAY 100634</p> <p>Precursor for [¹¹C-carbonyl]-WAY 100635</p> <p>C₁₈H₂₄N₄O Molar Mass: 312.41 [155204-28-7] Yellowish oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 1-Piperazine-ethanamine, 4-(2-methoxyphenyl)-N-2-pyridinyl-</p> <p>Synonyms: 4-(2-methoxyphenyl)-N-2-pyridinyl-1-piperazineethanamine; 1-(2-Methoxyphenyl)-4-2-(2-pyridylamino)-ethyl-piperazine</p> <p>Literature: McCarron J.A. et al. Remotely-controlled production of the 5-HT_{1A} receptor radioligand, [carbonyl-¹¹C]WAY-100635, via ¹¹C-carboxylation of an immobilized Grignard reagent. J. Labelled Compd. Radiopharm. 1996, 38, 941-953. Hwang D.-R. et al. An improved one-pot procedure for the preparation of [¹¹C-carbonyl]-WAY100635. Nucl. Med. Biol. 1999, 26, 815-819.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

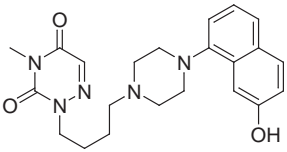
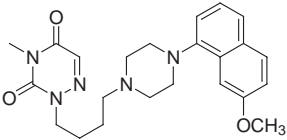
Product Number	Product	Order number / Unit
3210	<p>WAY 100635</p> <p>Reference standard for [¹¹C-carbonyl]-WAY 100635</p> <p>C₂₅H₃₄N₄O₂ Molar Mass: 422.56 [146714-97-8] Nearly colourless solid or oil packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Cyclohexanecarboxamide, N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-</p> <p>Synonyms: N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-cyclohexanecarboxamide</p> <p>Literature: McCarron J.A. et al. Remotely-controlled production of the 5-HT_{1A} receptor radioligand, [carbonyl-¹¹C]WAY-100635, via ¹¹C-carboxylation of an immobilized Grignard reagent. J. Labelled Compd. Radiopharm. 1996, 38, 941-953. Hwang D.-R. et al. An improved one-pot procedure for the preparation of [¹¹C-carbonyl]-WAY100635. Nucl. Med. Biol. 1999, 26, 815-819.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

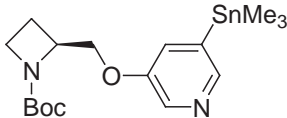
Product Number	Product	Order number / Unit
3220	Desmethyl-WAY100635 Precursor for [¹¹C]-WAY 100635 $C_{24}H_{32}N_4O_2 \cdot x H_2O \cdot y HCl$ Molar Mass: 408.54 (free base) [146715-34-6] Nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Cyclohexanecarboxamide, N-[2-[4-(2-hydroxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-, hydrochloride (2:3) Synonyms: N-[2-[4-(2-hydroxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl- cyclohexanecarboxamide hydrochloride; Desmethyl-WAY 100635 Literature: Tsukada, H. et al. Effects of aging on 5-HT1A receptors and their functional response to 5-HT1A agonist in the living brain: PET study with [carbonyl- ¹¹ C]WAY-100635 in conscious monkeys. Synapse, 2001, 42, 242-251. Sandell J. et. al. New halogenated [¹¹ C]WAY analogues, [¹¹ C]6FPWAY and [¹¹ C]6BPWAY - Radiosynthesis and assessment as radioligands for the study of brain 5-HAT ^{1A} receptors in living monkey. Nuclear Medicine and Biology, 2001, 28, 177-185.	Please inquire for customized filling and bulk quantities. 

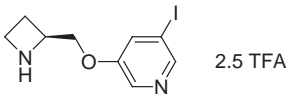
Product Number	Product	Order number / Unit
3230	Desmethyl-WAY 100634 Precursor for [¹¹C-carbonyl]-DesmethyWAY100635 $C_{17}H_{22}N_4O$ Molar Mass: 371.30 [146714-76-3] Colorless to nearly colorless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Phenol, 2-[4-[2-(2-pyridinylamino)ethyl]-1-piperazinyl]- Synonyms: N-Descyclohexyl-O-Desmethyl-WAY100635; O-Desmethyl-WAY100634 Literature: Pike V.W. et al. [Carbonyl- ¹¹ C]Desmethyl-WAY-100635 (DWAY) is a potent and selective radioligand for central 5-HT1A receptors in vitro and in vivo. Eur. J. Nucl. Med. 1998, 25, 338-346. Pike V.W. et al. Pre-clinical development of a radioligand for studies of central 5-HT1A receptors in vivo - [¹¹ C]WAY-100635. Med. Chem. Res. 1995, 5, 208-27. Pike V.W. et al. Radioligands for the study of brain 5-HT1A receptors in vivo-development of some new analogues of way. Nucl.Med. Biol. 2000, 27,449-455.	Please inquire for customized filling and bulk quantities. 

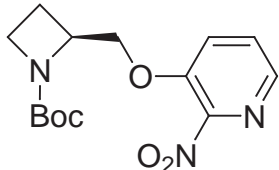
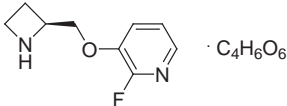
Product Number	Product	Order number / Unit
3240	Nitro-MPPF Precursor for [¹⁸F]MPPF $C_{25}H_{27}N_5O_4$ Molar Mass: 461.51 [155204-27-6] Yellow solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Benzamide, N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-4-nitro-N-2-pyridinyl Synonymes: 4-Nitro-N-[2-[4-(2-methoxyphenyl)piperazin-1-yl]ethyl]-N-pyridin-2-ylbenzamide Literature: Le Bars D. et al. High-yield radiosynthesis and preliminary in vivo evaluation of p-[¹⁸ F]MPPF, a fluoro analog of WAY-100635. J. Nucl. Med. Biol. 1998, 25, 343-350. Zhuang Z.-P. et al. Derivatives of 4-(2'-Methoxyphenyl)-1-[2'-(N-2'-pyridinyl-p-iodobenzamido)ethyl]piperazine (p-MPPI) as 5-HT1A Ligands. J. Med. Chem. 1994, 37, 4572-4575.	3240.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

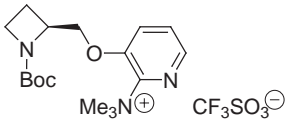
Product Number	Product	Order number / Unit
3250	MPPF Reference standard for [¹⁸F]MPPF $C_{25}H_{27}N_4O_2F$ Molar Mass: 434.51 [155204-26-5] Colourless to reddish solid or oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Benzamide, 4-fluoro-N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl- Synonymes: 4-Fluoro-N-[2-[4-(2-methoxyphenyl)piperazin-1-yl]ethyl]-N-pyridin-2-ylbenzamide Literature: Le Bars D. et al. High-yield radiosynthesis and preliminary in vivo evaluation of p-[¹⁸ F]MPPF, a fluoro analog of WAY-100635. J. Nucl. Med. Biol. 1998, 25, 343-350. Zhuang Z.-P. et al. Derivatives of 4-(2'-Methoxyphenyl)-1-[2'-(N-2'-pyridinyl-p-iodobenzamido)ethyl]piperazine (p-MPPI) as 5-HT1A Ligands. J. Med. Chem. 1994, 37, 4572-4575.	3250.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

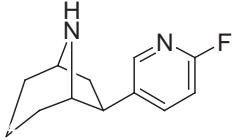
Product Number	Product	Order number / Unit
3260	Desmethyl-MPT Precursor for [¹¹C]MPT $C_{22}H_{27}N_5O_3$ Molar Mass: 409.48 [874471-23-5] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 1,2,4-Triazine-3,5(2H,4H)-dione, 2-[4-[4-(7-hydroxy-1-naphthalenyl)-1-piperazinyl]butyl]-4-methyl- Synonyms: 4-Methyl-2-(4-(4-(7-hydroxynaphthalene-1-yl)piperazinyl)butyl)-3,5-dioxo-(2H,4H)-1,2,4-triazine Literature: Kumar J.S.D. et al. Synthesis and in Vivo Validation of [O-Methyl- ¹¹ C]2-4-[4-(7-methoxynaphthalen-1-yl)piperazin-1-yl]butyl-4-methyl-2H-[1,2,4]triazine-3,5-dione: A Novel 5-HT1A Receptor Agonist Positron Emission Tomography Ligand. J. Med. Chem. 2006, 49, 125-134.	3260.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 
3270	MPT Reference standard for [¹¹C]MPT $C_{23}H_{29}N_5O_3$ Molar Mass: 423.51 [179756-59-3] Yellowish semisolid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 1,2,4-Triazine-3,5(2H,4H)-dione, 2-[4-[4-(7-methoxy-1-naphthalenyl)-1-piperazinyl]butyl]-4-methyl- Synonyms: 4-Methyl-2-(4-(4-(7-methoxynaphthalen-1-yl)piperazinyl)butyl)-3,5-dioxo-(2H,4H)-1,2,4-triazine Literature: Kumar J.S.D. et al. Synthesis and in Vivo Validation of [O-Methyl- ¹¹ C]2-4-[4-(7-methoxynaphthalen-1-yl)piperazin-1-yl]butyl-4-methyl-2H-[1,2,4]triazine-3,5-dione: A Novel 5-HT1A Receptor Agonist Positron Emission Tomography Ligand. J. Med. Chem. 2006, 49, 125-134.	3270.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

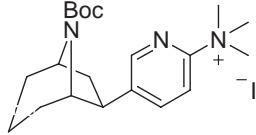
Product Number	Product	Order number / Unit
3300	<p>TAP Precursor for [¹²³I]IAP</p> <p>$C_{17}H_{28}N_2O_3Sn$ Molar Mass: 427.13 [213766-21-3] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: 1-Azetidinecarboxylic acid, 2-[[[5-(trimethylstannyl)-3-pyridinyl]oxy]methyl]-, 1,1-dimethylethyl ester, (2S)- Synonyms: 5-TMSt-A85380; (2S)-2-[[[5-Trimethylstannyl-3-pyridinyloxy]methyl]-1-azetidinecarboxylic acid, tert-butyl ester</p> <p>Literature: Musachio J.L. et al. Synthesis of an I-123 analog of A-85380 and preliminary SPECT imaging of nicotinic receptors in baboon. Nucl. Med. Biol. 1999, 26, 201-207. Musachio J.L. et al. 5-[I-125/123]Iodo-3(2S)-azetidylmethoxy-pyridine, a radioiodinated analog of A-85380 for in vivo studies of central nicotinic acetylcholine receptors. Life Sci. 1998, 62, 351-357.</p>	<p>3300.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

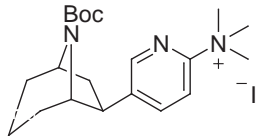
Product Number	Product	Order number / Unit
3310	<p>IAP Reference standard for [¹²³I]IAP</p> <p>$C_9H_{11}IN_2O \cdot \frac{5}{2} C_2HF_3O_2$ Molar Mass: 575.15 [213764-92-2] Colourless oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra Chemical Name: CA index name: Pyridine, 3-[(2S)-2-azetidylmethoxy]-5-iodo-, trifluoroacetate (2:5) Synonyms: IAP · TFA; IAP trifluoroacetate; 3-[(2S)-2-azetidylmethoxy]-5-iodo-pyridine trifluoroacetate; (S)-5-Iodo-3-[(2-azetidyl)-methoxy]pyridine Literature: Musachio J.L. et al. Synthesis of an I-123 analog of A-85380 and preliminary SPECT imaging of nicotinic receptors in baboon. Nucl. Med. Biol. 1999, 26, 201-207. Musachio J.L. et al. 5-[I-125/123]Iodo-3(2S)-azetidylmethoxy-pyridine, a radioiodinated analog of A-85380 for in vivo studies of central nicotinic acetylcholine receptors. Life Sci. 1998, 62, 351-357.</p>	<p>3310.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

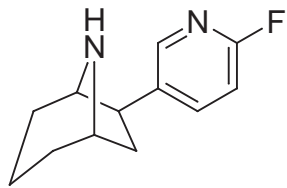
Product Number	Product	Order number / Unit
3320	<p>Nitro-AP Precursor for [¹⁸F]FAP</p> <p>$C_{14}H_{19}N_3O_5$ Molar Mass: 309.32 [209530-92-7] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1-Azetidinecarboxylic acid, 2-[[[2-nitro-3-pyridinyl]oxy]methyl]-, 1,1-dimethylethyl ester, (2S)- Synonyms: 2-Nitro-AP; 2-Nitro-A85380; 2-Nitro-3-[2(S)-N-tert-butoxycarbonyl]-[(2-azetidyl)-methoxy]pyridine</p> <p>Literature: Dollé F. et al. Synthesis of 2-[¹⁸F]Fluoro-3-[2(S)-2-azetidyl-methoxy]pyridine, a highly potent radioligand for in vivo imaging central nicotinic acetylcholine receptors. J. Labelled Compd. Radiopharm. 1998, 41, 451-463. Dolle F. et al. Synthesis and Nicotinic Acetylcholine Receptor in Vivo Binding Properties of 2-Fluoro-3-[2(S)-2-azetidylmethoxy]-pyridine: A New Positron Emission Tomography Ligand for Nicotinic Receptors. J. Med. Chem. 1999, 42, 2251-2259.</p>	<p>3320.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
3340	<p>FAP tartrate Reference standard for [¹⁸F]FAP</p> <p>$C_9H_{11}FN_2O \cdot C_4H_6O_6$ Molar Mass: 332.28 [209530-93-8] (free base) Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: Pyridine, 3-[(2S)-2-azetidylmethoxy]-2-fluoro-, tartrate Synonyms: 2-Fluoro-A85380 tartrate; 2-Fluoro-3-[2(S)-2-azetidyl-methoxy]pyridine tartrate</p> <p>Literature: Ding Y.-S. et al. Synthesis and evaluation of 6-[¹⁸F]fluoro-3-(2(S)-azetidylmethoxy)pyridine as a PET tracer for nicotinic acetylcholine receptors. Nucl. Med. Biol. 2000, 27, 381-389. Valette H. et al. Imaging central nicotinic acetylcholine receptors in baboons with [¹⁸F]fluoro-A-85380. J. Nucl. Med. 1999, 40, 1374-1380. Dolle F. et al. Synthesis and Nicotinic Acetylcholine Receptor in Vivo Binding Properties of 2-Fluoro-3-[2(S)-2-azetidylmethoxy]pyridine: A New Positron Emission Tomography Ligand for Nicotinic Receptors. J. Med. Chem. 1999, 42, 2251-2259. Horti A.G. et al. Synthesis of a radiotracer for studying nicotinic acetylcholine receptors: 2-[¹⁸F]fluoro-3-(2(S)-azetidylmethoxy)-pyridine (2-[¹⁸F]A-85380). J. Labelled Compd. Radiopharm. 1998, 41, 309-318.</p>	<p>3340.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

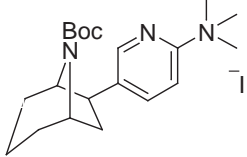
Product Number	Product	Order number / Unit
3350	<p>TMA-AP Precursor for [¹⁸F]FAP</p> <p>$C_{17}H_{28}N_3O_3 \cdot CF_3SO_3S$ Molar Mass: 471.49 [233766-75-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 2-Pyridinaminium, 3-[[[(2S)-1-[(1,1-dimethylethoxy)carbonyl]-2-azetidiny]methoxy]-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) Synonymes: 2-TMAAP; 2-TMA-A85380; (3-[2(S)-N-(tert-butoxycarbonyl)-2-azetidiny-methoxy]pyridin-2-yl)-trimethylammonium trifluoromethanesulfonate Literature: Dolle F. et al. Synthesis and Nicotinic Acetylcholine Receptor in Vivo Binding Properties of 2-Fluoro-3-[2(S)-2-azetidinylmethoxy]pyridine: A New Positron Emission Tomography Ligand for Nicotinic Receptors. J. Med. Chem. 1999, 42, 2251-2259. Bottlaender M. et al. Biodistribution and Radiation Dosimetry of ¹⁸F-Fluoro-A-85380 in Healthy Volunteers. J. Nucl. Med. 2003, 44, 596-601.</p>	<p>3350.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

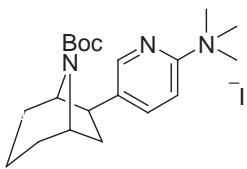
Product Number	Product	Order number / Unit
3351	<p>(-)-Flubatine standard Reference standard for (-)-[¹⁸F]Flubatine</p> <p>C₁₂H₁₅FN₂ Molar Mass: 206.26 [845642-53-7] White to slightly grey solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra; HPLC Chemical Name: (1R,5S,6S)-6-(6-Fluoro-pyridin-3-yl)-8-aza-bicyclo[3.2.1]octane Synonymes: ABX063; (-)-Flubatine; (-)-NCFHEB; (-)-exo-6-(6-fluoro-pyridin-3-yl)-8-aza-bicyclo[3.2.1]octane Literature: Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229. Deuther-Conrad et al. W. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

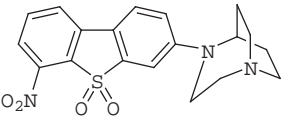
Product Number	Product	Order number / Unit
3353	<p>(-)-Flubatine precursor Precursor for (-)-[¹⁸F]Flubatine</p> <p>C₂₀H₃₂IN₃O₂ Molar Mass: 473.39 [1421915-93-6] White to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: 5-((1R, 5S, 6S)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide Synonymes: ABX075; (-)-Flubatine precursor; (-)-NCFHEB precursor; (-)-5-(8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide Literature: Präkursorverbindungen für die Radiosynthese von [¹⁸F]Norchlor-fluor-homoepibatidin. Patent DE 2011080118062700 Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

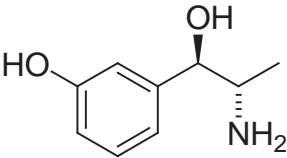
Product Number	Product	Order number / Unit
3354	<p>(-)-Flubatine precursor (GMP) Precursor for (-)-[¹⁸F]Flubatine</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{20}H_{32}IN_3O_2$ Molar Mass: 473.39 [1421915-93-6]</p> <p>White to yellowish solid packaged in dark glass vials.</p> <p>Purity:</p> <p>Certificates: CoA with NMR and IR spectra, ESI-MS (identity); optical rotation; HPLC (purity); GC (residual solvents)</p> <p>Chemical Name: 5-((1R, 5S, 6S)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Synonymes: ABX088, (-)-Flubatine precursor; (-)-NCFHEB precursor; (-)-5-(8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Literature: Präkursorverbindungen für die Radiosynthese von [¹⁸F]Norchlor-fluor-homoepibatidin. Patent DE 2011080118062700</p> <p>Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218.</p> <p>Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229.</p> <p>Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

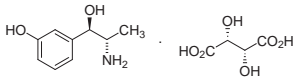
Product Number	Product	Order number / Unit
3355	<p>(+)-Flubatine standard Reference standard for (+)-[¹⁸F]Flubatine</p> <p>$C_{12}H_{15}FN_2$ Molar Mass: 206.26 [845642-52-6]</p> <p>White to slightly grey solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra; HPLC</p> <p>Chemical Name: (1S,5R,6R)-6-(6-Fluoro-pyridin-3-yl)-8-aza-bicyclo[3.2.1]octane</p> <p>Synonymes: ABX064; (+)-Flubatine; (+)-NCFHEB; (+)-exo-6-(6-fluoro-pyridin-3-yl)-8-aza-bicyclo[3.2.1]octane</p> <p>Literature: Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218.</p> <p>Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229.</p> <p>Deuther-Conrad et al. W. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

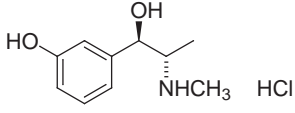
Product Number	Product	Order number / Unit
3357	<p>(+)-Flubatine precursor Precursor for (+)-[¹⁸F]Flubatine</p> <p>C₂₀H₃₂IN₃O₂ Molar Mass: 473.39 CAS-RN not yet assigned White to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; HPLC Chemical Name: 5-((1S, 5R, 6R)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Synonymes: ABX126; (+)-Flubatine precursor; (+)-NCFHEB precursor; (+)-5-(8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Literature: Präkursorverbindungen für die Radiosynthese von [¹⁸F]Norchlor-fluor-homoepibatidin. Patent DE 2011080118062700 Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

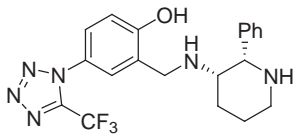
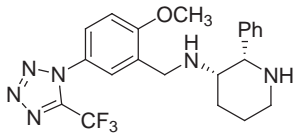
Product Number	Product	Order number / Unit
3358	<p>(+)-Flubatine precursor (GMP) Precursor for (+)-[¹⁸F]Flubatine</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₂₀H₃₂IN₃O₂ Molar Mass: 473.39 CAS-RN not yet assigned White to yellowish solid packaged in dark glass vials.</p> <p>Purity: Certificates: CoA with NMR and IR spectra, ESI-MS (identity); optical rotation; HPLC (purity); GC (residual solvents) Chemical Name: 5-((1S, 5R, 6R)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Synonyms: ABX126; (+)-Flubatine precursor; (+)-NCFHEB precursor; (+)-5-(8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide</p> <p>Literature: Präkursorverbindungen für die Radiosynthese von [¹⁸F]Norchlor-fluor-homoepibatidin. Patent DE 2011080118062700 Brust P. et al. In vivo measurement of nicotinic acetylcholine receptors with [¹⁸F]norchloro-fluoro-homoepibatidine. Synapse 2008, 62, 205-218. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine (NCFHEB) - a promising radioligand for neuroimaging nicotinic acetylcholine receptors with PET. Eur. Neuropsychopharmacol. 2008, 18, 222-229. Deuther-Conrad W. et al. Norchloro-fluoro-homoepibatidine: specificity to neuronal nicotinic acetylcholine receptor subtypes in vitro. Farmaco, 2004, 59, 785-792.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

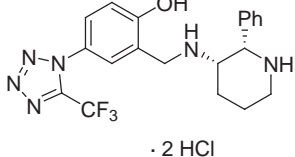
Product Number	Product	Order number / Unit
3371	ASEM precursor Precursor for [¹⁸F]ASEM <chem>C19H19N3O4S</chem> Molar Mass: 385.44 [1456877-71-6] Reddish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H spectrum Chemical Name: 3-(1,4-diazabicyclo[3.2.2]nonan-4-yl)-6-nitrodibenzo[b,d]thiophene 5,5-dioxide Synonymes: [¹⁸ F]ASEM precursor; [¹⁸ F]JHU82132 precursor; 4-(6-Nitro-5,5-dioxo-5H-5l6-dibenzothiophen-3-yl)-1,4-diaza-bicyclo[3.2.2]nonane Literature: Gao Y. et al. Derivatives of dibenzothiophene for positron emission tomography imaging of α7-nicotinic acetylcholine receptors. J. Med. Chem. 2013, 56, 7574-7589. Horti A.G. et al. ¹⁸ F-ASEM, a Radiolabeled Antagonist for Imaging the α7-Nicotinic Acetylcholine Receptor with PET. J. Nucl. Med. 2014, 55, 672-677. Wong D.F. et al. Human Brain Imaging of α7 nAChR with [¹⁸ F]ASEM: a New PET Radiotracer for Neuropsychiatry and Determination of Drug Occupancy. Mol. Imaging Biol. 2014, 16, 730-738. Horti A.G. Development of [¹⁸ F]ASEM, a specific radiotracer for quantification of the α7-nAChR with positron-emission tomography. Biochem. Pharmacol. 2015, 97, 566-575. Ravert H.T. et al. Microwave-assisted radiosynthesis of [¹⁸ F]ASEM, a radiolabeled α7-nicotinic acetylcholine receptor antagonist. J. Labelled Compd. Radiopharm. 2015, 58, 180-182.	3371.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

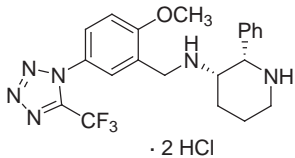
Product Number	Product	Order number / Unit
3380	Metaraminol (free base) Precursor for [¹¹C]Metahydroxyephedrine <chem>C9H13NO2</chem> Molar Mass: 167.21 [54-49-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 90 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: Benzenemethanol, α-[(1S)-1-(amino)ethyl]-3-hydroxy- Synonymes: Metaraminol; m-Hydroxy-norephedrine; (-)-erythro-Metaraminol; (1-Aminoethyl)-3-hydroxybenzenemethanol; 1-(m-Hydroxyphenyl)-2-amino-1-propanol; 1-α-(1-Aminoethyl)-m-hydroxybenzylalcohol; 1-Metaraminol Literature: Nägren K. et al. [¹¹ C]Metaraminol, a false neurotransmitter. Preparation, metabolite studies and positron emission tomography investigation in monkey. Nucl. Med. Biol. 1996, 23, 221-227. Van Dort M.E. et al. Synthesis and carbon-11 labeling of the stereoisomers of meta-hydroxyephedrine (HED) and meta-hydroxypseudoephedrine (HPED). J. Labelled Compd. Radiopharm. 2000, 43, 603-612. Van Dort M.E. Direct Chromatographic resolution and Isolation of the four Stereoisomers of meta-Hydroxyphenyl-propanolamine. Chirality 1999, 11, 684-688.	3380.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

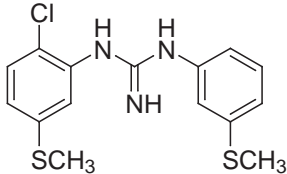
Product Number	Product	Order number / Unit
3390	<p>Metaraminol bitartrate Precursor for [¹¹C]Metahydroxyephedrine</p> <p>$C_9H_{13}NO_2 \cdot C_4H_6O_6$ Molar Mass: 317.29 [33402-03-8]</p> <p>Colourless solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index names: Benzenemethanol, α-[(1S)-1-aminoethyl]-3-hydroxy-, (αR)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (salt)</p> <p>Synonymes: Metaraminol bitartrate salt; m-Hydroxy-norephedrine bitartrate; (-)-1-α-(1-Aminoethyl)-m-hydroxybenzylalcohol bitartrate; (-)-Metaraminol (+)-bitartrate; (-)-m-Hydroxyphenylpropanolamine bitartrate salt; (-)-Metaraminol bitartrate</p> <p>Literature: Van Dort M.E. et al. Synthesis and carbon-11 labeling of the stereoisomers of meta-hydroxyephedrine (HED) and meta-hydroxypseudoephedrine (HPED). J. Labelled Compd. Radiopharm. 2000, 43, 603-612.</p> <p>Någren K. et al. [¹¹C]Metaraminol, a false neurotransmitter. Preparation, metabolite studies and positron emission tomography investigation in monkey. Nucl. Med. Biol. 1996, 23, 221-227.</p> <p>Rosenspire K. et al. Synthesis and Preliminary Evaluation of Carbon-11-Meta-Hydroxyephedrine: A False Transmitter Agent for Heart Neuronal Imaging. J. Nucl. Med. 1990, 31, 1328-1334.</p>	<p>3390.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

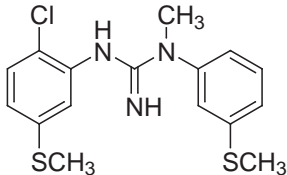
Product Number	Product	Order number / Unit
3400	<p>MHED hydrochloride Reference standard for [¹¹C]Metahydroxyephedrine</p> <p>C₁₀H₁₅NO₂ · HCl Molar Mass: 217.69 [24493-89-8] Nearly colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: Benzenemethanol, 3-hydroxy-α-[(1S)-1-(methylamino)ethyl]-, hydrochloride, (αR)-; Benzenemethanol, 3-hydroxy-α-[1-(methylamino)ethyl]-, hydrochloride, [R-(R*,S*)]- Synonymes: (1R,2S)-(-)-meta-hydroxyephedrine hydrochloride; Benzenemethanol, 3-hydroxy-α-[(1S)-1-(methylamino)ethyl]-, hydrochloride, (αR)-; Benzenemethanol, 3-hydroxy-α-[1-(methylamino)ethyl]-, hydrochloride, [R-(R*,S*)] Literature: Van Dort M.E. et al. Synthesis and carbon-11 labeling of the stereoisomers of meta-hydroxyephedrine (HED) and meta-hydroxypseudoephedrine (HPED). J. Labelled Compd. Radiopharm. 2000, 43, 603-612. Van Dort M.E. et al. Synthesis of 3H-labeled sympathomimetic amines for neuronal mapping. J. Labelled Compd. Radiopharm. 1990, 28, 831-840.</p>	<p>3400.0010: 10 mg per vial 3400.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

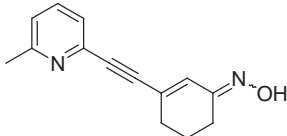
Product Number	Product	Order number / Unit
3500	Desmethyl-GR 205171 Precursor for [¹¹C]GR 205171 $C_{20}H_{21}F_3N_6O$ Molar Mass: 418.42 [180574-25-8] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Phenol, 2-[[[(2S,3S)-2-phenyl-3-piperidiny]-amino]methyl]-4-[5-(trifluoromethyl)-1H-tetrazol-1-yl]- Synonyms: Phenol, 2-[[[(2-phenyl-3-piperidiny)amino]methyl]-4-[5-(trifluoromethyl)-1H-tetrazol-1-yl]-, (2S-cis)- Literature: Bergström M. et al. Brain uptake and receptor binding of two [¹¹ C]labelled selective high affinity NK1-antagonists, GR203040 and GR205171-PET studies in rhesus monkey. <i>Neuropharmacology</i> 2000, 39, 664-670. Zamuner S. et al. Estimate the time varying brain receptor occupancy in PET imaging experiments using non-linear fixed and mixed effect modeling approach <i>Nucl. Med. Biol.</i> 2002, 29, 115-123. Bergström M. et al. A new application of pre-normalized principal component analysis for improvement of image quality and clinical diagnosis in human brain PET studies—clinical brain studies using [¹¹ C]-GR205171, [¹¹ C]-L-deuterium-deprenyl, [¹¹ C]-5-Hydroxy-L-Tryptophan, [¹¹ C]-L-DOPA and Pittsburgh Compound-B. <i>Neuroimage</i> 2006, 33, 588-598.	3500.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 
3510	GR 205171 Reference standard for [¹¹C]GR 205171 $C_{21}H_{23}F_3N_6O$ Molar Mass: 432.44 [168266-90-8] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: 3-Piperidinamine, N-[[2-methoxy-5-[5-(trifluoromethyl)-1H-tetrazol-1-yl]phenyl]methyl]-2-phenyl, (2S,3S) Synonyms: 3-Piperidinamine, N-[[2-methoxy-5-[5-(trifluoromethyl)-1H-tetrazol-1-yl]phenyl]methyl]-2-phenyl, (2S-cis-); Vofopitant Literature: Bergström M. et al. Brain uptake and receptor binding of two [¹¹ C]labelled selective high affinity NK1-antagonists, GR203040 and GR205171-PET studies in rhesus monkey. <i>Neuropharmacology</i> 2000, 39, 664-670. Zamuner S. et al. Estimate the time varying brain receptor occupancy in PET imaging experiments using non-linear fixed and mixed effect modeling approach <i>Nucl. Med. Biol.</i> 2002, 29, 115-123. Bergström M. et al. A new application of pre-normalized principal component analysis for improvement of image quality and clinical diagnosis in human brain PET studies—clinical brain studies using [¹¹ C]-GR205171, [¹¹ C]-L-deuterium-deprenyl, [¹¹ C]-5-Hydroxy-L-Tryptophan, [¹¹ C]-L-DOPA and Pittsburgh Compound-B. <i>Neuroimage</i> 2006, 33, 588-598.	3510.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

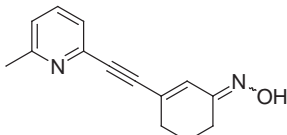
Product Number	Product	Order number / Unit
3520	Desmethyl-GR 205171 Dihydrochloride Precursor for [¹¹C]GR 205171 $C_{20}H_{21}F_3N_6O \cdot 2 HCl$ Molar Mass: 491.34 [262598-97-0] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Phenol, 2-[[[(2S,3S)-2-phenyl-3-piperidiny]-amino]methyl]-4-[5-(trifluoromethyl)-1H-tetrazol-1-yl]-, dihydrochloride Synonyms: Phenol, 2-[[[(2-phenyl-3-piperidiny)amino]methyl]-4-[5-(trifluoromethyl)-1H-tetrazol-1-yl]-, dihydrochloride, (2S-cis)-; Literature: Bergström M. et al. Brain uptake and receptor binding of two [¹¹ C]labelled selective high affinity NK1-antagonists, GR203040 and GR205171-PET studies in rhesus monkey. <i>Neuropharmacology</i> 2000, 39, 664-670. Zamuner S. et al. Estimate the time varying brain receptor occupancy in PET imaging experiments using non-linear fixed and mixed effect modeling approach <i>Nucl. Med. Biol.</i> 2002, 29, 115-123. Bergström M. et al. A new application of pre-normalized principal component analysis for improvement of image quality and clinical diagnosis in human brain PET studies—clinical brain studies using [¹¹ C]-GR205171, [¹¹ C]-L-deuterium-deprenyl, [¹¹ C]-5-Hydroxy-L-Tryptophan, [¹¹ C]-L-DOPA and Pittsburgh Compound-B. <i>Neuroimage</i> 2006, 33, 588-598.	3520.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

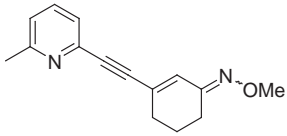
Product Number	Product	Order number / Unit
3530	GR 205171 Dihydrochloride Reference standard for [¹¹C]GR 205171 $C_{21}H_{23}F_3N_6O \cdot 2 HCl$ Molar Mass: 505.36 [168266-51-1] Off-white to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: 3-Piperidinamine, N-[[2-methoxy-5-[5-(trifluoromethyl)-1H-tetrazol-1-yl]phenyl]methyl]-2-phenyl-, dihydrochloride, (2S,3S)- Synonyms: 3-Piperidinamine, N-[[2-methoxy-5-[5-(trifluoromethyl)-1H-tetrazol-1-yl]phenyl]methyl]-2-phenyl-, dihydrochloride, (2S-cis)-; GR 205171A; Vofopitant dihydrochloride Literature: Bergström M. et al. Brain uptake and receptor binding of two [¹¹ C]labelled selective high affinity NK1-antagonists, GR203040 and GR205171-PET studies in rhesus monkey. <i>Neuropharmacology</i> 2000, 39, 664-670. Zamuner S. et al. Estimate the time varying brain receptor occupancy in PET imaging experiments using non-linear fixed and mixed effect modeling approach <i>Nucl. Med. Biol.</i> 2002, 29, 115-123. Bergström M. et al. A new application of pre-normalized principal component analysis for improvement of image quality and clinical diagnosis in human brain PET studies—clinical brain studies using [¹¹ C]-GR205171, [¹¹ C]-L-deuterium-deprenyl, [¹¹ C]-5-Hydroxy-L-Tryptophan, [¹¹ C]-L-DOPA and Pittsburgh Compound-B. <i>Neuroimage</i> 2006, 33, 588-598.	3530.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

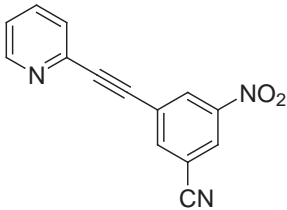
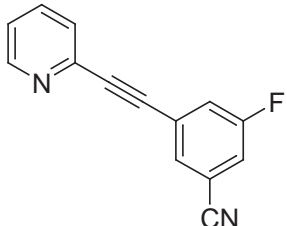
Product Number	Product	Order number / Unit
3540	Desmethyl-CNS 5161 Precursor for [¹¹C]CNS 5161 $C_{15}H_{16}ClN_3S_2$ Molar Mass: 337.89 [160754-78-9] Colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Guanidine, N-[2-chloro-5-(methylthio)phenyl]-N'-[3-(methylthio)phenyl]- Synonyms: N-(2-Chloro-5-methylsulfanyl-phenyl)-N'-(3-methylsulfanyl-phenyl)- guanidine Literature: Årstad E. et al. Synthesis and characterization of N-(2-chloro-5-methylthiophenyl)-N-(3-methylthiophenyl)-N-[¹¹ C]methylguanidine [¹¹ C]CNS 5161, a candidate PET tracer for functional imaging of NMDA receptors. J. Labelled Comp. Radiopharm. 2006, 49, 163-170.	3540.0001: 1 mg per vial Please inquire for customized filling and bulk quantities. 

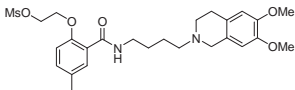
Product Number	Product	Order number / Unit
3550	CNS 5161 Reference standard for [¹¹C]CNS 5161 $C_{16}H_{18}ClN_3S_2$ Molar Mass: 351.92 [160754-76-7] Yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Guanidine, N'-[2-chloro-5-(methylthio)phenyl]-N-methyl-N-[3-(methylthio)phenyl]- Synonyms: N-(2-Chloro-5-methylthiophenyl)-N'-(3-methylthiophenyl)-N'-methylguanidine; CNS5161 Literature: Årstad E. et al. Synthesis and characterization of N-(2-chloro-5-methylthiophenyl)-N-(3-methylthiophenyl)-N-[¹¹ C]methylguanidine [¹¹ C]CNS 5161, a candidate PET tracer for functional imaging of NMDA receptors. J. Labelled Comp. Radiopharm. 2006, 49, 163-170.	3350.0001: 1 mg per vial 3350.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

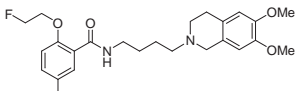
Product Number	Product	Order number / Unit
3560	Desmethyl ABP688 Precursor for [$^{11}\text{C}/^3\text{H}$]ABP688	3560.1000: 1000 mg per vial 3560.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.
<p>Remark: Product consists of E/Z isomers of varying proportions</p> <p>$\text{C}_{14}\text{H}_{14}\text{N}_2\text{O}$ Molar Mass: 226.27</p> <p>[849469-03-0]</p> <p>Colourless to yellowish solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{13}C NMR spectra</p> <p>Chemical Name: CA index name: 2-Cyclohexen-1-one, 3-[(6-methyl-2-pyridinyl)ethynyl]-, oxime</p> <p>Synonyms: 3-(6-Methyl-pyridin-2-ylethynyl)-cyclohex-2-enone oxime</p> <p>Literature: Hintermann S. et al. ABP688, a novel selective and high affinity ligand for the labeling of mGlu5 receptors: Identification, in vitro pharmacology, pharmacokinetic and biodistribution studies. Bioorg. Med. Chem. 2007, 15, 903-914.</p>		

Product Number	Product	Order number / Unit
3561	Desmethyl ABP688 (GMP) Precursor for [$^{11}\text{C}/^3\text{H}$]ABP688	3561.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.
<p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>Remark: Product consists of E/Z isomers of varying proportions</p> <p>$\text{C}_{14}\text{H}_{14}\text{N}_2\text{O}$ Molar Mass: 226.27</p> <p>[849469-03-0]</p> <p>Colourless to yellowish solid packaged in dark glass vials.</p> <p>Purity: \geq 97 %</p> <p>Certificates: CoA with NMR and IR spectra (identity), HPLC (purity), GC (residual solvents), ICP-MS (inorganic impurities)</p> <p>Chemical Name: CA index name: 2-Cyclohexen-1-one, 3-[(6-methyl-2-pyridinyl)ethynyl]-, oxime</p> <p>Synonyms: Desmethyl ABP688; 3-(6-Methyl-pyridin-2-ylethynyl)-cyclohex-2-enone oxime</p> <p>Literature: Hintermann S. et al. ABP688, a novel selective and high affinity ligand for the labeling of mGlu5 receptors: Identification, in vitro pharmacology, pharmacokinetic and biodistribution studies. Bioorg. Med. Chem. 2007, 15, 903-914.</p>		

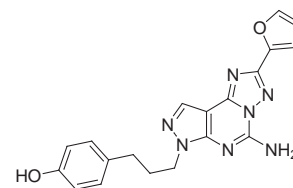
Product Number	Product	Order number / Unit
3570	ABP688 Reference standard for [$^{11}\text{C}/^3\text{H}$]ABP688	Please inquire for customized filling and bulk quantities.
	<p>Remark: Product consists of E/Z isomers of varying proportions</p> <p>$\text{C}_{15}\text{H}_{16}\text{N}_2\text{O}$ Molar Mass: 240.30</p> <p>[924298-51-1]</p> <p>Yellow-green solid or oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H and ^{13}C NMR spectra</p> <p>Chemical Name: CA index name: 2-Cyclohexen-1-one, 3-[2-(6-methyl-2-pyridinyl)ethynyl]-O-methyloxime</p> <p>Synonymes: 3-(6-Methyl-pyridin-2-ylethynyl)-cyclohex-2-enone O-methyl-oxime</p> <p>Literature: Hintermann S. et al. ABP688, a novel selective and high affinity ligand for the labeling of mGlu5 receptors: Identification, in vitro pharmacology, pharmacokinetic and biodistribution studies. Bioorg. Med. Chem. 2007, 15, 903-914.</p>	

Product Number	Product	Order number / Unit
3571	<p>FPEB precursor</p> <p>Precursor for [¹⁸F]FPEB (3-[¹⁸F]Fluoro-5-(2-pyridinylethynyl)benzonitrile) $C_{14}H_7N_3O_2$ Molar Mass: 249.22 [1031370-96-3] Slightly coloured solid packaged in dark glass crimp cap vials. Purity: ≥ 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzonitrile, 3-nitro-5-[2-(2-pyridinyl)ethynyl]- Synonyms: 3-[2-(pyridin-2-yl)ethynyl]-5-nitrobenzonitrile; 3-Nitro-5-(pyridinylethynyl)benzonitrile; 3-Nitro-5-pyridin-2-ylethynyl-benzonitrile; Benzonitrile, 3-nitro-5-[2-(pyridinyl)ethynyl]- Literature: Wang J.-Q. et al. Synthesis and Preliminary Biological Evaluation of 3-[¹⁸F]Fluoro-5-(2-pyridinylethynyl)benzonitrile as a PET Radiotracer for Imaging Metabotropic Glutamate Receptor Subtype 5. Synapse 2007, 61, 951-961. Alagille D. et al. Potent mGluR5 antagonists: Pyridyl and thiazolyl-ethynyl-3,5-disubstituted-phenyl series. Bioorg. Med. Chem. Lett. 2011, 21, 3243-3247.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 
3572	<p>FPEB standard</p> <p>Reference standard for [¹⁸F]FPEB (3-[¹⁸F]Fluoro-5-(2-pyridinylethynyl)benzonitrile) $C_{14}H_7FN_2$ Molar Mass: 222.22 [864063-10-5] Off-white solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Benzonitrile, 3-fluoro-5-[2-(2-pyridinyl)ethynyl] Synonyms: 3-Fluoro-5-(2-pyridinylethynyl)benzonitrile; 3-(2-(pyridin-2-yl)ethynyl)-5-fluorobenzonitrile; 3-Fluoro-5-pyridin-2-ylethynyl-benzonitrile Literature: Wang J.-Q. et al. Synthesis and Preliminary Biological Evaluation of 3-[¹⁸F]Fluoro-5-(2-pyridinylethynyl)benzonitrile as a PET Radiotracer for Imaging Metabotropic Glutamate Receptor Subtype 5. Synapse 2007, 61, 951-961.</p>	<p>3572.0010: 10 mg per vial 3572.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.</p> 

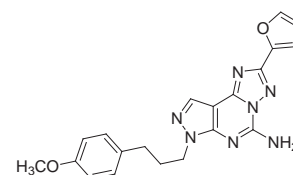
Product Number	Product	Order number / Unit
3590	<p>ISOM</p> <p>Precursor for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸F]fluoro-ethoxy)-5-methyl-benzamide</p> <p>C₂₆H₃₆N₂O₇S Molar Mass: 520.64 [945992-43-8]</p> <p>White to off-white solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Benzamide, N-[4-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)butyl]-5-methyl-2-[2-[(methanesulfonyl)oxy]ethoxy]-</p> <p>Synonyms: 2-(2-(4-(6,7-Dimethoxy-3,4-dihydroisoquinolin-2(1H)-yl)butylcarbamoyl)-4-methylphenoxy)-ethyl Methanesulfonate; Methanesulfonic acid 2-(2-[4-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butylcarbamoyl]-4-methyl-phenoxy)-ethyl ester</p> <p>Literature: Tu Z. et al. Fluorine-18-Labeled Benzamide Analogues for Imaging the σ₂ Receptor Status of Solid Tumors with Positron Emission Tomography. J. Med. Chem. 2007, 50, 3194-3204.</p>	<p>3590.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

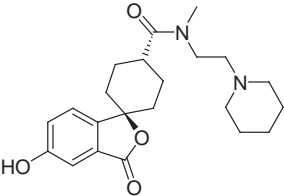
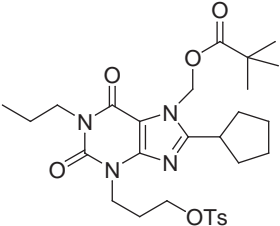
Product Number	Product	Order number / Unit
3591	<p>ISOF</p> <p>Reference standard for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸F]fluoro-ethoxy)-5-methyl-benzamide</p> <p>C₂₅H₃₃FN₂O₄ Molar Mass: 444.54 [851705-46-9]</p> <p>White to yellowish solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: Benzamide, N-[4-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)butyl]-2-(2-fluoroethoxy)-5-methyl-</p> <p>Synonyms: N-[6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl-butyl]-2-(2-fluoro-ethoxy)-5-methyl-benzamide; N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-fluoro-ethoxy)-5-methyl-benzamide</p> <p>Literature: Tu Z. et al. Fluorine-18-Labeled Benzamide Analogues for Imaging the σ₂ Receptor Status of Solid Tumors with Positron Emission Tomography. J. Med. Chem. 2007, 50, 3194-3204.</p>	<p>3591.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

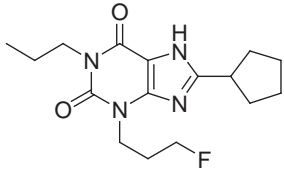
Product Number	Product	Order number / Unit
3700	Desmethyl-SCH-442416 Precursor for [¹¹C]SCH 442416 $C_{19}H_{17}N_7O_2$ Molar Mass: 375.38 [188112-92-7] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Phenol, 4-[3-[5-amino-2-(2-furanyl)-7H-pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-7-yl]propyl]- Synonymes: 5-Amino-7-[3-(4-hydroxyphenyl)propyl]-2-(2-furyl)pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidine Literature: Baraldi P.G. et al. 7-Substituted 5-Amino-2-(2-furyl)pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidines as A2A Adenosine Receptor Antagonists: A Study on the Importance of Modifications at the Side Chain on the Activity and Solubility. J. Med. Chem. 2002, 45, 115-126. Baraldi P.G. et al. Design, Synthesis, and Biological Evaluation of a Second Generation of Pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidines as Potent and Selective A2A Adenosine Receptor Antagonists. J. Med. Chem. 1998, 41, 2126-2133.	3700.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

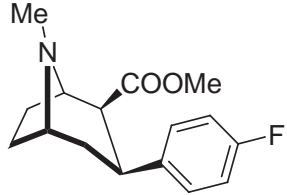
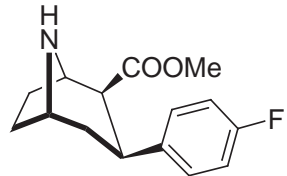


Product Number	Product	Order number / Unit
3710	SCH-442416 Reference standard for [¹¹C]SCH 442416 $C_{20}H_{19}N_7O_2$ Molar Mass: 389.41 [316173-57-6] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 7H-Pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidin-5-amine, 2-(2-furanyl)-7-[3-(4-methoxyphenyl)propyl]- Synonymes: 5-Amino-7-[3-(4-methoxyphenyl)propyl]-2-(2-furyl)-pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidine Literature: Todde S. et al. Design, Radiosynthesis, and Biodistribution of a New Potent and Selective Ligand for in Vivo Imaging of the Adenosine A2A Receptor System Using Positron Emission Tomography. J. Med. Chem. 2000, 43, 4359-4362.	3710.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

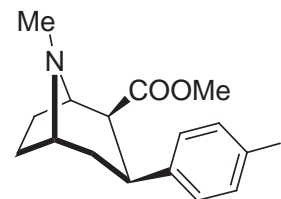


Product Number	Product	Order number / Unit
3720	<p>Desmethyl-MK-8278 Precursor for [¹¹C]MK-8278</p> <p><chem>C22H30N2O4</chem> Molar Mass: 386.48 [879368-41-9]</p> <p>Colourless to off-white foam/solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum; HPLC</p> <p>Chemical Name: Spiro[cyclohexane-1,1'-(3'-H)-isobenzofuran]-4-carboxamide, 5'-hydroxy-N-methyl-3'-oxo-N-[2-(1-piperidinyl)ethyl]-, (1α,4β)-</p> <p>Synonyms: trans-5'-Hydroxy-3'-oxo-N-methyl-N-(2-piperidin-1-ylethyl)-spiro[cyclohexane-1,1'-(3'-H)-isobenzofuran]-4-carboxamide; [¹¹C]MK-8278 precursor</p> <p>Literature: Van Laere K. J. et al. 11C-MK-8278 PET as a Tool for Pharmacodynamic Brain Occupancy of Histamine 3 Receptor Inverse Agonists. J. Nucl. Med. 2014, 55, 65-72. Hamill T. G. et al. Inverse Agonist Histamine H3 Receptor PET Tracers Labelled With Carbon-11 or Fluorine-18. Synapse 2009, 63, 1122-1132.</p>	<p>3720.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
3750	<p>CPTPX Precursor for [¹⁸F]CPFPX 8-Cyclopentyl-3-(3-[¹⁸F]fluoropropyl)-1-propylxanthine</p> <p><chem>C29H40N4O7S</chem> Molar Mass: 588.72 [478173-67-0]</p> <p>Colourless solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Propanoic acid, 2,2-dimethyl-, [8-cyclopentyl-1,2,3,6-tetrahydro-3-[3-[(4-methylphenyl)sulfonyl]oxy]propyl]-2,6-dioxo-1-propyl-7H-purin-7-yl]methyl ester</p> <p>Synonyms: 2,2-Dimethyl-propionic acid 8-cyclopentyl-2,6-dioxo-1-propyl-3-[3-(toluene-4-sulfonyloxy)-propyl]-1,2,3,6-tetrahydro-purin-7-ylmethyl ester; 8-Cyclopentyl-3-(3-tosyloxypropyl)-7-pivaloyloxymethyl-1-propylxanthine</p> <p>Literature: Holschbach M. H. et al. Synthesis and Evaluation of No-Carrier-Added 8-Cyclopentyl-3-(3-[¹⁸F]fluoropropyl)-1-propylxanthine ([¹⁸F]CPFPX): A Potent and Selective A1-Adenosine Receptor Antagonist for in Vivo Imaging. J. Med. Chem. 2002, 45, 5150-5156. Bauer A. et al. Evaluation of ¹⁸F-CPFPX, a Novel Adenosine A1 Receptor Ligand: In Vitro Autoradiography and High-Resolution Small Animal PET. J. Nucl. Med. 2003, 44, 1682-1689. Matusch A. et al. Metabolism of the A1 adenosine receptor PET ligand [¹⁸F]CPFPX by CYP1A2: implications for bolus/infusion PET studies. Nucl. Med. Biol. 2006, 33, 891-898. Elmenhorst D. et al. Caffeine Occupancy of Human Cerebral A1 Adenosine Receptors: In Vivo Quantification with ¹⁸F-CPFPX and PET. J. Nucl. Med. 2012, 53, 1723-1729.</p>	<p>3750.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

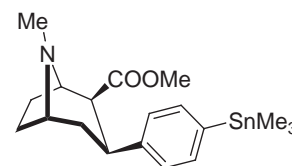
Product Number	Product	Order number / Unit
3751	<p>CPFPX</p> <p>Reference standard for [¹⁸F]CPFPX</p> <p>8-Cyclopentyl-3-(3-[¹⁸F]fluoropropyl)-1-propylxanthine</p> <p>C₁₆H₂₃FN₄O₂ Molar Mass: 322.38</p> <p>[200557-18-2]</p> <p>Colourless to off-white solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 1H-Purine-2,6-dione, 8-cyclopentyl-3-(3-fluoropropyl)-3,9-dihydro-1-propyl-</p> <p>Synonymes: 8-Cyclopentyl-3-(3-fluoro-propyl)-1-propyl-3,7-dihydro-purine-2,6-dione; 8-Cyclopentyl-3-(3-[¹⁸F]fluoropropyl)-1-propylxanthine</p> <p>Literature: Holschbach M. H. et al. Synthesis and Evaluation of No-Carrier-Added 8-Cyclopentyl-3-(3-[¹⁸F]fluoropropyl)-1-propylxanthine ([¹⁸F]CPFPX): A Potent and Selective A1-Adenosine Receptor Antagonist for in Vivo Imaging. J. Med. Chem. 2002, 45, 5150-5156.</p> <p>Bauer A. et al. Evaluation of ¹⁸F-CPFPX, a Novel Adenosine A1 Receptor Ligand: In Vitro Autoradiography and High-Resolution Small Animal PET. J. Nucl. Med. 2003, 44, 1682-1689.</p> <p>Matusch A. et al. Metabolism of the A1 adenosine receptor PET ligand [¹⁸F]CPFPX by CYP1A2: implications for bolus/infusion PET studies. Nucl. Med. Biol. 2006, 33, 891-898.</p> <p>Elmenhorst D. et al. Caffeine Occupancy of Human Cerebral A1 Adenosine Receptors: In Vivo Quantification with ¹⁸F-CPFPX and PET. J. Nucl. Med. 2012, 53, 1723-1729.</p>	<p>3751.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

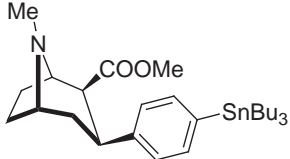
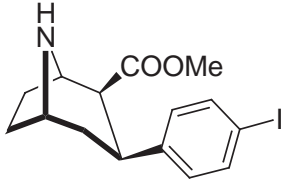
Product Number	Product	Order number / Unit
4000	<p>(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)tropane Reference standard for [¹¹C]-beta-CFT</p> <p>C₁₆H₂₀FNO₂ Molar Mass: 277.33 [50370-56-4] Colourless crystals packaged in dark glass crimp cap vials (4000.0001) or screw cap vials (4000.0025). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-methyl-, methyl ester, (1R,2S,3S,5S)- Synonyms: β-CFT; 2-CFT; β-Cft; WIN35428 Literature: Calligaro D.O. et al. Central and peripheral cocaine receptors. J. Pharmacol. Exp. Ther. 1987, 243, 61-68. Reith M.E. et al. Saturable [³H]cocaine binding in central nervous system of mouse. Life Sci. 1980, 27, 1055-1062.</p>	<p>4000.0001: 1 mg per vial 4000.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4020	<p>(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane Precursor for [¹¹C]beta-CFT</p> <p>C₁₅H₁₈FNO₂ Molar Mass: 263.31 [127648-30-0] Colourless to yellowish solid packaged in dark glass crimp cap vials (4020.0001) or screw cap vials (4020.0025). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl), methyl ester, (1R,2S,3S,5S)- Synonyms: nor-β-CFT; nor-2-CFT Literature: Milius R.A. et al. Synthesis and receptor binding of N-substituted tropane derivatives. High-affinity ligands for the cocaine receptor. J. Med. Chem. 1991, 34, 1728-1731. Nagren K. et al. Comparison of [¹¹C]methyl triflate and [¹¹C]methyl iodide in the synthesis of PET radioligands such as [¹¹C]beta-CIT and [¹¹C]beta-CFT. Nucl. Med. Biol. 1995, 22, 965-979.</p>	<p>4020.0001: 1 mg per vial 4020.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

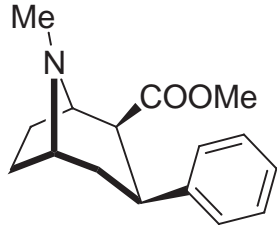
Product Number	Product	Order number / Unit
4030	<p>(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)tropane</p> <p>Reference standard for [¹¹C]beta-CIT</p> <p>Precursor for [[*]I]beta-CIT</p> <p>C₁₆H₂₀INO₂ Molar Mass: 385.24</p> <p>[135416-43-2]</p> <p>Colourless to yellowish crystals packaged in dark glass crimp cap vials (4030.0001) or screw cap vials (4030.0025).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: β-CIT; 2-CIT</p> <p>Literature: Muller L. et al. [¹¹C]-beta-CIT, a cocaine analogue. Preparation, autoradiography and preliminary PET investigations. Nucl. Med. Biol. 1993, 20, 249-255.</p> <p>Ametamey S.M. et al. Synthesis of nor-beta-CIT, beta-CIT and trimethylstannyl-beta-CT. Nucl. Med. Biol. 1995, 22, 959-964.</p>	<p>4030.0001: 1 mg per vial</p> <p>4030.0025: 25 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

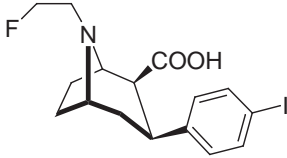


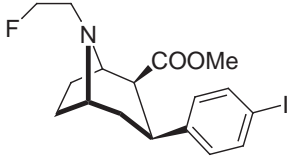
Product Number	Product	Order number / Unit
4040	<p>TMS-CT</p> <p>Precursor for [¹⁸F]CFT</p> <p>Precursor for [[*]I]beta-CIT</p> <p>C₁₉H₂₉NO₂Sn Molar Mass: 422.15</p> <p>[158111-10-5]</p> <p>Colourless crystals packaged in dark glass crimp cap vials (4040.0001) or screw cap vials (4040.0025).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-methyl-3-[4-(trimethylstannyl)phenyl]-, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: (-)-2-β-Carbomethoxy-3β-[4-(trimethylstannyl)]phenyltropane; Trimethylstannyl-β-CT</p> <p>Literature: Ametamey S.M. et al. Synthesis of nor-beta-CIT, beta-CIT and trimethylstannyl-beta-CT. Nucl. Med. Biol. 1995, 22, 959-964.</p> <p>Zea-Ponce Y. et al. Simplified multidose preparation of iodine-123-β-CIT: a marker for dopamine transporters. J. Nucl. Med. 1995, 36, 525-529.</p> <p>Carpinelli A. et al. Radiosynthesis of [¹²³I]-beta-CIT, a selective ligand for the study of the dopaminergic and serotonergic systems in human brain. Appl. Rad. Isot. 2001, 54, 93-95.</p>	<p>4040.0001: 1 mg per vial</p> <p>4040.0025: 25 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

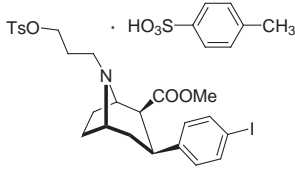
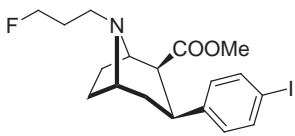


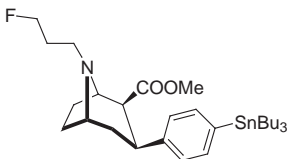
Product Number	Product	Order number / Unit
4041	<p>TBS-CT</p> <p>Precursor for [¹⁸F]CFT</p> <p>Precursor for [¹¹I]beta-CIT</p> <p>C₂₈H₄₇NO₂Sn Molar Mass: 548.39</p> <p>[136794-88-2]</p> <p>Highly viscous oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-methyl-3-[4-(tributylstannyl)phenyl]-, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: (-)-2-β-Carbomethoxy-3β-[4-(tributylstannyl)]phenyltropane; 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-methyl-3-[4-(tributylstannyl)phenyl]-, methyl ester, [1R-(exo,exo)]-Tributylstannyl-β-CT</p> <p>Literature: Loch Ch. et al. Synthesis of 2β-carbomethoxy-3β-(4-[⁷⁶Br]bromophenyl)tropane ([⁷⁶Br]beta-CBT), a PET tracer for in vivo imaging of the dopamine uptake sites. J. Labelled Comp. Radiopharm. 1995, 36, 385-92.</p> <p>Baldwin R.M. et al. Evaluation of the monoamine uptake site ligand [¹²³I]methyl 3β(4-iodophenyl)tropane-2β-carboxylate ([¹²³I]β-CIT) in nonhuman primates: Pharmacokinetics, biodistribution and SPECT brain imaging co-registered with MRI. Nucl. Med. Biol. 1993, 20, 597-606.</p> <p>Neumeyer J.L. et al. [¹²³I]-2β-carbomethoxy-3β-(4-iodophenyl)-tropane: high-affinity SPECT (single photon emission computed tomography) radiotracer of monoamine reuptake sites in brain. J. Med. Chem. 1991, 34, 3144-6.</p>	<p>4041.0001: 1 mg per vial</p> <p>4041.0025: 25 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 
4050	<p>(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)nortropane</p> <p>Precursor for [¹¹C]beta-CIT</p> <p>C₁₅H₁₈INO₂ Molar Mass: 371.21</p> <p>[136794-87-1]</p> <p>Colourless to yellowish crystals packaged in dark glass crimp cap vials (4050.0001) or screw cap vials (4050.0025).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl), methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: nor-β-CIT; nor-2-CIT</p> <p>Literature: Muller L. et al. [¹¹C]-beta-CIT, a cocaine analogue. Preparation, autoradiography and preliminary PET investigations. Nucl. Med. Biol. 1993, 20, 249-255.</p> <p>Ametamey S.M. et al. Synthesis of nor-beta-CIT, beta-CIT and trimethylstannyl-beta-CT. Nucl. Med. Biol. 1995, 22, 959-964.</p>	<p>4050.0001: 1 mg per vial</p> <p>4050.0025: 25 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
4060	<p>(-)-2-beta-Carbomethoxy-3-beta-(phenyl)tropane Reference standard for [¹¹C]-beta-CPT</p> <p>C₁₆H₂₁NO₂ Molar Mass: 259.34 [50372-80-0] Colourless crystals packaged in dark glass crimp cap vials (4060.0001) or screw cap vials (4060.0025). Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-phenyl-8-methyl-, methyl ester, (1R,2S,3S,5S)- Synonyms: β-CPT; 2-CPT; WIN 35065 Literature: Ritz M.C. et al. [³H]WIN 35,065-2: a ligand for cocaine receptors in striatum. J. Neurochem. 1990, 55, 1556-1562. Scheffel U. et al. Cocaine receptors: In Vivo Labelling with 3H-(-) cocaine, 3H-WIN 35,065-2, and 3H-WIN 35,428. Synapse 1989, 4, 390-392.</p>	<p>4060.0001: 1 mg per vial 4060.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

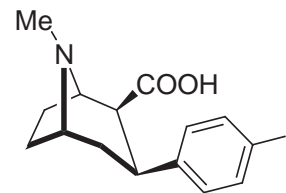
Product Number	Product	Order number / Unit
4100	<p>CITFES Precursor for [¹¹C]beta-CITFE</p> <p>C₁₆H₁₉FINO₂ Molar Mass: 403.23 [180045-77-6] Colourless to nearly colourless solid packaged in dark glass crimp cap vials (4100.0001) or screw cap vials (4100.0010). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-(2-fluoroethyl)-3-(4-iodophenyl)-, (1R,2S,3S,5S)- Synonyms: N-2-fluoroethyl-3-β-(4-iodophenyl)nortropane-2-β-carboxylic acid; β-CIT-FE acid Literature: Antonini A. et al. The status of dopamine nerve terminals in Parkinson's disease and essential tremor: a PET study with the tracer [¹¹C]FE-CIT. Neurol. Sci. 2001, 22, 47-48. Halldin C. et al. [¹¹C]beta-CIT-FE, a radioligand for quantitation of the dopamine transporter in the living brain using positron emission tomography. Synapse 1996, 22, 386-390. Baldwin R.M. et al. Regional brain uptake and pharmacokinetics of [¹²³I]N-ω-fluoroalkyl-2-β-carboxy-3-β-(4-iodophenyl)-nortropane esters in baboons. Nucl. Med. Biol. 1995, 22, 211-209.</p>	<p>4100.0001: 1 mg per vial 4100.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
4110	<p>CITFE Reference standard for [¹⁸F]beta-CITFE Reference standard for [¹²³I]beta-CITFE</p> <p>C₁₇H₂₁FINO₂ Molar Mass: 417.26 [155798-01-9]</p> <p>Colourless to yellowish crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-(2-fluoroethyl)-3-(4-iodophenyl)-, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonymes: N-2-fluoroethyl-3-β-(4-iodophenyl)nortropane-2-β-carboxylic acid methyl ester; CITFE; β-CIT-FE</p> <p>Literature: Antonini A. et al. The status of dopamine nerve terminals in Parkinson's disease and essential tremor: a PET study with the tracer [¹¹C]FE-CIT. Neurol. Sci. 2001, 22, 47-48.</p> <p>Halldin C. et al. [¹¹C]beta-CIT-FE, a radioligand for quantitation of the dopamine transporter in the living brain using positron emission tomography. Synapse 1996, 22, 386-390.</p> <p>Baldwin R.M. et al. Regional brain uptake and pharmacokinetics of [¹²³I]N-ω-fluoroalkyl-2-β-carboxy-3-β-(4-iodophenyl)-nortropane esters in baboons. Nucl. Med. Biol. 1995, 22, 211-209.</p>	<p>4110.0001: 1 mg per vial 4110.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

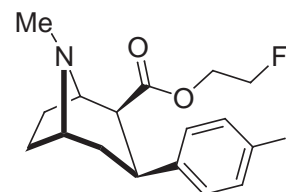
Product Number	Product	Order number / Unit
4122	CITTP Tosylate Precursor for [¹⁸F]beta-CITFP $C_{25}H_{30}INO_5S \cdot C_7H_8O_3S$ Molar Mass: 583.48 [186381-39-5] (free base) Colourless to off-white solid packaged in dark glass screw cap vials. Purity: ≥ 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-[3-[[[(4-methylphenyl)sulfonyl]oxy]propyl]-, methyl ester, (1R,2S,3S,5S)-, salt with 4-methylbenzenesulfonic acid (1:1) Synonyms: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-[3-[[[(4-methylphenyl)sulfonyl]oxy]propyl]-, methyl ester, [1R-(exo,exo)]-, tosylate salt; N-2-(3'-tosyloxy)propyl-3-β-(4-iodophenyl)nortropine-2-β-carboxylic acid methyl ester, tosylate salt; β-CIT-TP tosylate, CITTP tosylate Literature: Lee S.J. et al. One-step high-radiochemical-yield synthesis of [¹⁸ F]FP-CIT using a protic solvent system. Nucl. Med. Biol. 2007, 34, 345-351.	4122.0004: 4 mg per vial 4122.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 
4130	CITFP Reference standard for [¹⁸F]beta-CITFP Reference standard for [¹²³I]beta-CITFP $C_{18}H_{23}FINO_2$ Molar Mass: 431.28 [155797-99-2] Colourless or yellowish crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-(3-fluoropropyl)-3-(4-iodophenyl)-, methyl ester, (1R,2S,3S,5S)- Synonyms: N-2-fluoropropyl-3-β-(4-iodophenyl)nortropine-2-β-carboxylic acid methyl ester; β-CIT-FP Literature: Baldwin R.M. et al. Regional brain uptake and pharmacokinetics of [¹²³ I]N-ω-fluoroalkyl-2-β-carboxy-3-β-(4-iodophenyl)-nortropine esters in baboons. Nucl. Med. Biol. 1995, 22, 211-209.	4130.0001: 1 mg per vial 4130.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

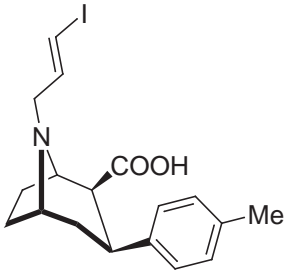
Product Number	Product	Order number / Unit
4132	<p>TBSCT-FP Precursor for [¹²³I]beta-CITFP</p> <p>C₃₀H₅₀FNO₂Sn Molar Mass: 594.43 [479642-48-3] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹⁹F and ¹¹⁹Sn NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-(3-fluoropropyl)-3-[4-(tributylstannyl)phenyl]-, methyl ester, (1R,2S,3S,5S)- Synonymes: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-[[4-(tributylstannyl)phenyl]-8-[3-(4-fluoropropyl)-, methyl ester, [1R-(exo,exo)]-; N-2-fluoropropyl-3-β-[(4-tributylstannyl)phenyl]nortropane-2-β-carboxylic acid methyl ester; TBS-CT-FP Literature: Fang P. et al. Synthesis and labeling of ^{125/131}I-FP-β-CIT as a dopamine transporter imaging agent. Hejishu 2002, 25, 113-117.</p>	<p>4132.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

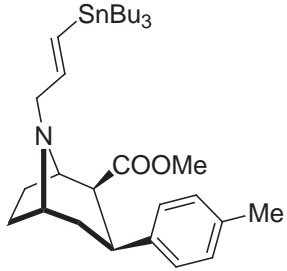
Product Number	Product	Order number / Unit
4140	beta-CIT acid Precursor for 2-[¹⁸F]Fluoroethyl-beta-CIT (ester) $C_{15}H_{18}INO_2$ Molar Mass: 371.21 [141807-58-1] Colourless solid packaged in dark glass crimp cap vials (4140.0001) or screw cap vials (4140.0025). Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1] octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl-, (1R,2S,3S,5S)- Synonymes: 3β-(4'-iodophenyl)tropan-2β-carboxylic acid; 3-Deoxy-3-(p-iodophenyl)-α-ecgonine Literature: Gu X.-H. et al. Synthesis and Evaluation of a series of novel N- or O-fluoroalkyl derivatives of Tropane: potential positron emission tomography (PET) imaging agents for the dopamine transporter. Bioorg. Med. Chem. Lett. 2001, 11, 3049-3053.	4140.0001: 1 mg per vial 4140.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.

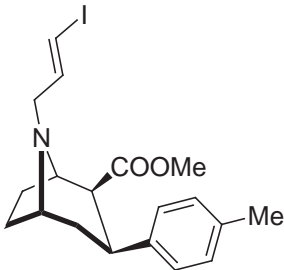


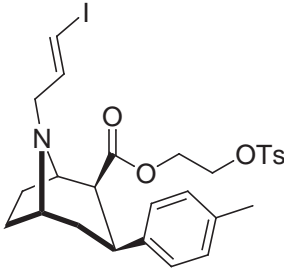
Product Number	Product	Order number / Unit
4150	2-FE-beta-CIT Reference standard for 2-[¹⁸F]Fluoroethyl-beta-CIT (ester) $C_{17}H_{21}FINO_2$ Molar Mass: 417.26 [398497-81-9] Nearly colourless solid packaged in dark glass crimp cap vials (4150.0001) or screw cap vials (4150.0025). Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl-, 2-fluoroethyl ester, (1R,2S,3S,5S)- Synonymes: 3β-(4'-iodophenyl)tropan-2β-carboxylic acid, 2-fluoro-ethyl ester; 2-Fluorethyl-β-CIT Literature: Gu X.-H. et al. Synthesis and Evaluation of a series of novel N- or O-fluoroalkyl derivatives of Tropane: potential positron emission tomography (PET) imaging agents for the dopamine transporter. Bioorg. Med. Chem. Lett. 2001, 11, 3049-3053.	4150.0001: 1 mg per vial 4150.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.

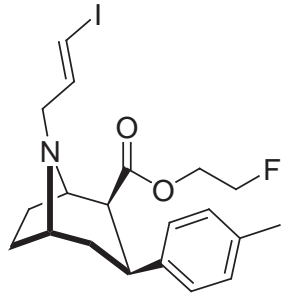
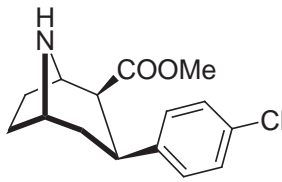


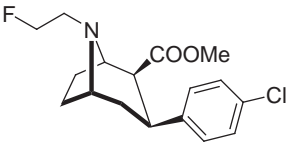
Product Number	Product	Order number / Unit
4160	<p>PE2I acid Precursor for [¹¹C]PE2I</p> <p>C₁₈H₂₂INO₂ Molar Mass: 411.28 [311351-26-5]</p> <p>Colourless to yellowish solid packaged in dark glass crimp cap vials (4160.0001) or screw cap vials (4160.0010).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-[(2E)-3-iodo-2-propenyl]-3-(4-methylphenyl)-, (1R,2S,3S,5S)-</p> <p>Synonyms: (E)-N-(3-Iodoprop-2-enyl)-2β-carboxy-3β-(p-tolyl)-nortropan; Nor-PE2I</p> <p>Literature: Dolle F. et al. Highly efficient synthesis of [¹¹C]PE2I, a selective radioligand for the quantification of the dopamine transporter using PET. J. Labelled Compd. Radiopharm. 2000, 43, 997-1004.</p>	<p>4160.0001: 1 mg per vial 4160.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

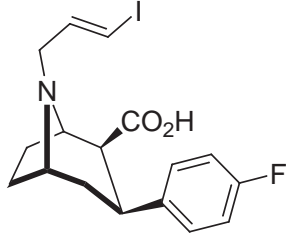
Product Number	Product	Order number / Unit
4165	<p>PE2I tin precursor Precursor for [¹²³I]PE2I ([¹²³I](E)-N-(3-iodoprop-2-enyl)-2β-carbomethoxy-3β-(4'-methyl-phenyl)nortropane)</p> <p>C₃₁H₅₁NO₂Sn Molar Mass: 588.45 [188680-65-1]</p> <p>Colourless oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-methylphenyl)-8-[(2E)-3-(tributylstannyl)-2-propen-1-yl]-, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: N-[3-(Tri-n-butylstannyl)prop-(2E)-enyl]-2β-carbomethoxy-3β-(4'-methylphenyl)nortropane</p> <p>Literature: Edmond P. et al. Synthesis and Ligand Binding of Nortropane Derivatives: N-Substituted 2β-Carbomethoxy-3β-(4'-iodophenyl)nortropane and N-(3-Iodoprop-(2E)-enyl)-2β-carbomethoxy-3β-(3',4'-disubstituted phenyl)nortropane. New High-Affinity and Selective Compounds for the Dopamine Transporter. J. Med. Chem. 1997, 40, 1366-1372.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

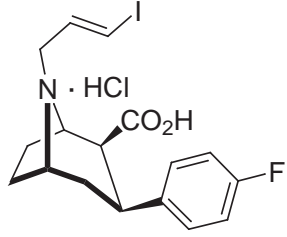
Product Number	Product	Order number / Unit
4170	<p>PE2I</p> <p>Reference standard for [¹¹C]PE2I</p> <p>C₁₉H₂₄INO₂ Molar Mass: 425.3 [188680-71-9] Colourless to yellowish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-[(2E)-3-iodo-2-propenyl]-3-(4-methylphenyl)-, methyl ester, (1R,2S,3S,5S)-</p> <p>Synonyms: (E)-N-3-Iodoprop-2-enyl)-2β-carbomethoxy-3β-(p-tolyl)-nortropane</p> <p>Literature: Halldin C. et al. [¹¹C]PE2I: a highly selective radioligand for PET examination of the dopamine transporter in monkey and human brain. Eur. J. Nucl. Med. Mol. Imaging 2003, 30, 1220-1230. Emond P. et al. Synthesis and Ligand Binding of Nortropine Derivatives: N-Substituted 2β-Carbomethoxy-3β-(4'-iodophenyl)-nortropine and N-(3-Iodoprop-(2E)-enyl)-2β-carbomethoxy-3β-(3',4'-disubstituted phenyl)nortropine. New High-Affinity and Selective Compounds for the Dopamine Transporter. J. Med. Chem. 1997, 40, 1366-1372.</p>	<p>4170.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

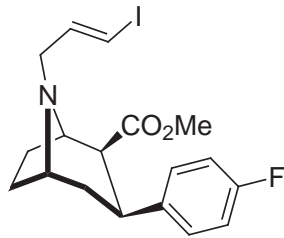
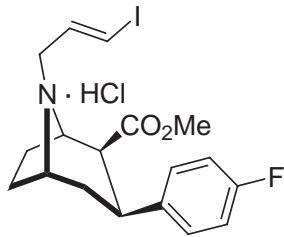
Product Number	Product	Order number / Unit
4172	<p>TEO-PE2I</p> <p>Precursor for [¹⁸F]FE-PE2I</p> <p>C₂₇H₃₂INO₅S Molar Mass: 609.52 [1391711-43-5] Yellow solid packaged in dark glass vials.</p> <p>Purity: > 90 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-[(2E)-3-iodo-2-propen-1-yl]-3-(4-methylphenyl)-, 2-[[[(4-methylphenyl)sulfonyl]oxy]ethyl] ester, (1R,2S,3S,5S)-</p> <p>Synonyms: (2-(tosyloxy)ethyl-8-[(2E)-3-iodoprop-2-en-1-yl]-3-(4-tolyl)-tropane-2-carboxylate</p> <p>Literature: Stepanov V. et al. An efficient one-step radiosynthesis of [¹⁸F]FE-PE2I, a PET radioligand for imaging of dopamine transporters. J. Labelled Compd. Radiopharm. 2012, 55, 206-210. n.a.</p>	<p>4172.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

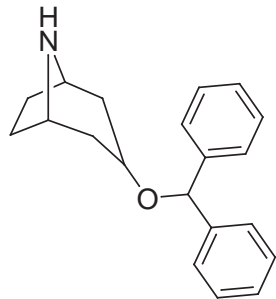
Product Number	Product	Order number / Unit
4173	<p>FE-PE2I</p> <p>Referece standard for [¹⁸F]FE-PE2I</p> <p>C₂₀H₂₅FINO₂ Molar Mass: 457.32 [949091-68-3] Yellow oil packaged in dark glass screw cap vials. Purity: > 95% Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 8-[(2E)-3-iodo-2-propen-1-yl]-3-(4-methylphenyl)-, 2-fluoroethyl ester, (1R,2S,3S,5S)- Synonyms: (2-fluoroethyl-8-[(2E)-3-iododprop-2-en-1-yl]-3-(4-tolyl)-tropane-2-carboxylate Literature: Varrone A. et al. In Vitro Autoradiography and In Vivo Evaluation in Cynomolgus Monkey of [¹⁸F]FE-PE2I, a New Dopamine Transporter PET Radioligand. Synapse 2009; 871-880.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 
4180	<p>Nor-beta-CCIT</p> <p>Precursor for [¹⁸F]FECNT</p> <p>C₁₅H₁₈ClNO₂ Molar Mass: 279.76 [146725-33-9] Brownish solid packaged in dark glass crimp cap vials (4180.0001) or screw cap vials (4180.0010). Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-chlorophenyl)-, methyl ester, (1R,2S,3S,5S)- Synonyms: 3-β-(4-chlorophenyl)nortropane-2-β-carboxylic acid methyl ester; Nor-β-CCIT Literature: Goodman M.M. et al. ¹⁸F-labeled FECNT: a selective radioligand for PET imaging of brain dopamine transporter. Nucl. Med. Biol. 2000, 27, 1-12. Votaw J.R. et al. Measurement of dopamine transporter occupancy for multiple injections of cocaine using a single injection of [¹⁸F]FECNT. Synapse 2002, 44, 203-210.</p>	<p>4180.0001: 1 mg per vial 4180.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

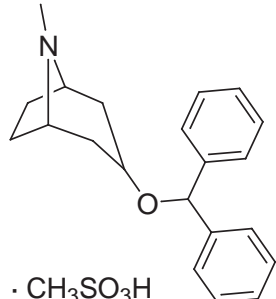
Product Number	Product	Order number / Unit
4190	<p>FECNT Reference standard for [¹⁸F]FECNT</p> <p>C₁₇H₂₁ClFNO₂ Molar Mass: 325.81 [281667-94-5] Brownish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-chlorophenyl)-8-(2-fluoroethyl)-, methyl ester, (1R,2S,3S,5S)- Synonymes: N-Fluoroethyl-2β-carbomethoxy-3β-(4-chlorophenyl)-nortropane</p> <p>Literature: Goodman M.M. et al. ¹⁸F-labeled FECNT: a selective radioligand for PET imaging of brain dopamine transporter. Nucl. Med. Biol. 2000, 27, 1-12. Votaw J.R. et al. Measurement of dopamine transporter occupancy for multiple injections of cocaine using a single injection of [¹⁸F]FECNT. Synapse 2002, 44, 203-210.</p>	<p>4190.0001: 1 mg per vial 4190.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

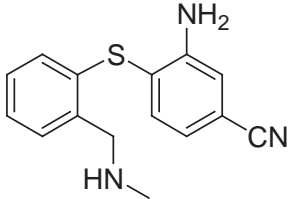
Product Number	Product	Order number / Unit
4200	<p>Altropane acid Precursor for [¹¹C]Altropane</p> <p>C₁₇H₁₉FINO₂ Molar Mass: 415.24 [335104-67-1] Colourless solid packaged in dark glass crimp cap vials (4200.0001) or screw cap vials (4200.0025). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-[(2E)-3-iodo-2-propenyl]-, (1R,2S,3S,5S)- Synonyms: (E)-N-(3-Iodoprop-2-enyl)-2β-carboxy-3β-(4-fluorophenyl)-nortropane; (E)-N-(1-Iodoprop-1-en-3-yl)-3-beta-(4-fluorophenyl)-nortropane-2-beta-carboxylic acid</p> <p>Literature: Fischman A.J. et al. [¹¹C,¹²⁷I] Altropane: a highly selective ligand for PET imaging of dopamine transporter sites. <i>Synapse</i> 2001, 39, 332-342. Madras B.K. et al. Altropane, a SPECT or PET imaging probe for dopamine neurons: I. Dopamine transporter binding in primate brain. <i>Synapse</i> 1998, 29, 93-104. II. Distribution to dopamine-rich regions of primate brain. <i>Synapse</i> 1998, 29, 105-115 III. Human dopamine transporter in postmortem normal and Parkinsons brain. <i>Synapse</i> 1998, 29, 116-127.</p>	<p>4200.0001: 1 mg per vial 4200.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

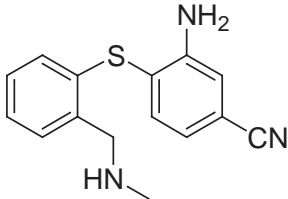
Product Number	Product	Order number / Unit
4201	<p>Altropane acid hydrochloride Precursor for [¹¹C]Altropane</p> <p>C₁₇H₁₉FINO₂ · HCl Molar Mass: 451.70 [335104-67-1] (Altropane acid free amine) Colourless solid packaged in dark glass crimp cap vials (4201.0001) or screw cap vials (4201.0025). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-[(2E)-3-iodo-2-propenyl]-, (1R,2S,3S,5S)-, hydrochloride salt Synonyms: (E)-N-(3-Iodoprop-2-enyl)-2β-carboxy-3β-(4-fluorophenyl)-nortropane; (E)-N-(1-Iodoprop-1-en-3-yl)-3-beta-(4-fluorophenyl)-nortropane-2-beta-carboxylic acid, hydrochloride salt</p> <p>Literature: Same as product number 4200</p>	<p>4201.0001: 1 mg per vial 4201.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

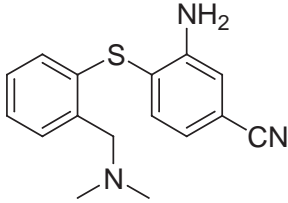
Product Number	Product	Order number / Unit
4210	<p>Altropane Reference standard for [¹¹C]Altropane Reference standard for [¹²⁵I]Altropane</p> <p>C₁₈H₂₁FINO₂ Molar Mass: 429.27 [180468-34-2] Colourless to orange solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-[(2E)-3-iodo-2-propenyl]-, methyl ester, (1R,2S,3S,5S)- Synonyms: (E)-N-(1-iodoprop-1-en-3-yl)-3-β-(4-fluorophenyl)-nortropane-2-β-carboxylic acid methyl ester; (E)-N-(3-iodoprop-2-enyl)-2β-carbomethoxy-3β-(4-fluorophenyl)-nortropane; 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-(3-iodo-2-propenyl)-, methyl ester, [1R-[1a,2a,3a,5a,8(E)]]-; IACFT Literature: Fischman A.J. et al. [¹¹C, ¹²⁷I] Altropane: a highly selective ligand for PET imaging of dopamine transporter sites. <i>Synapse</i> 2001, 39, 332-342. Elmaleh D.J. et al. Preparation and biological evaluation of iodine-125-IACFT: a selective SPECT agent for imaging dopamine transporter sites. <i>J. Nucl. Med.</i> 1996, 37, 1197-1202. Madras B.K. et al. Altropane, a SPECT or PET imaging probe for dopamine neurons: I. Dopamine transporter binding in primate brain. <i>Synapse</i> 1998, 29, 93-104. II. Distribution to dopamine-rich regions of primate brain. <i>Synapse</i> 1998, 29, 105-115 III. Human dopamine transporter in postmortem normal and Parkinsons brain. <i>Synapse</i> 1998, 29, 116-127.</p>	<p>4210.0001: 1 mg per vial 4210.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4211	<p>Altropane hydrochloride Reference standard for [¹¹C]Altropane Reference standard for [¹²⁵I]Altropane</p> <p>C₁₈H₂₁FINO₂ · HCl Molar Mass: 465.73 [180468-34-2] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl)-8-[(2E)-3-iodo-2-propenyl]-, methyl ester, (1R,2S,3S,5S)-, hydrochloride salt Synonyms: (E)-N-(1-iodoprop-1-en-3-yl)-3-β-(4-fluorophenyl)-nortropane-2-β-carboxylic acid methyl ester, hydrochloride; (E)-N-(3-iodoprop-2-enyl)-2β-carbomethoxy-3β-(4-fluorophenyl)-nortropane hydrochloride; IACFT HCl Literature: Same as product number 4210</p>	<p>4211.0001: 1 mg per vial 4211.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

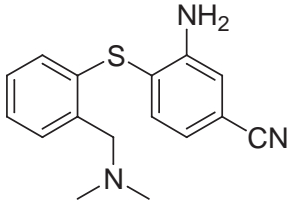
Product Number	Product	Order number / Unit
4230	<p>Norbenztropine Precursor for [¹¹C]Benztropine</p> <p>$C_{20}H_{23}NO$ Molar Mass: 293.40 [28404-87-7] Colourless to yellowish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 8-Azabicyclo[3.2.1]octane, 3-(diphenylmethoxy)-, (3-endo)- Synonyms: Norbenztropine; 3-(Benzhydryloxy)-8-azabicyclo[3.2.1]octane; 1αH,5αH-Nortropine, 3α-(diphenylmethoxy)-; 8-Azabicyclo[3.2.1]octane, 3-(diphenylmethoxy)-, endo-; endo-3-(Benzhydryloxy)-8-azabicyclo[3.2.1]octane Literature: Agoston G.E. et al. Novel N-Substituted 3α-[Bis(4'-fluorophenyl)methoxy]tropane Analogues: Selective Ligands for the Dopamine Transporter. J. Med. Chem. 1997, 40, 4329-4339</p>	<p>4320.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

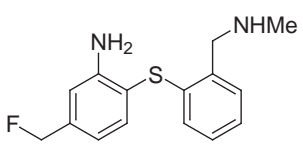
Product Number	Product	Order number / Unit
4231	<p>Benztropine Mesylate Reference standard for [¹¹C]Benztropine</p> <p>$C_{21}H_{25}NO \cdot CH_4O_3S$ Molar Mass: 403.53 [132-17-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: 3-(Benzhydryloxy)-8-methyl-8-azabicyclo[3.2.1]octane methanesulfonate Synonyms: 8-Azabicyclo[3.2.1]octane, 3-(diphenylmethoxy)-, endo, methanesulfonate Literature: Agoston G.E. et al. Novel N-Substituted 3α-[Bis(4'-fluorophenyl)methoxy]tropane Analogues: Selective Ligands for the Dopamine Transporter. J. Med. Chem. 1997, 40, 4329-4339</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

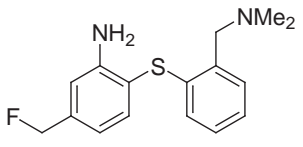
Product Number	Product	Order number / Unit
4300	<p>MASB Precursor for [¹¹C]DASB ([¹¹C]N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)benzylamine)</p> <p>C₁₅H₁₅N₃S Molar Mass: 269.37 [296774-10-2] Off-white to brownish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzonitrile, 3-amino-4-[[2-[(methylamino)methyl]phenyl]thio] Synonymes: N-Methyl-2-(2-amino-4-cyanophenylthio)-benzylamine; N-Desmethyl-DASB Literature: Houle S. et al. Imaging the serotonin transporter with positron emission tomography: initial human studies with [¹¹C]DAPP and [¹¹C]DASB. Eur. J. Nucl. Med. 2000, 29, 1719-1722. Wilson A.A. et al. Novel Radiotracers for imaging the serotonin transporter by positron emission tomography: synthesis, radiosynthesis, and in vitro and ex vivo evaluation of ¹¹C-labeled 2-(phenylthio)aralkylamines. J. Med. Chem. 2000, 43, 3103-3110.</p>	<p>4300.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

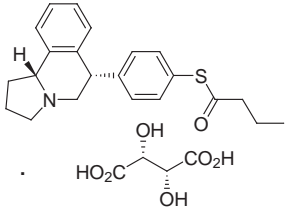
Product Number	Product	Order number / Unit
4301	<p>MASB (GMP) Precursor for [¹¹C]DASB ([¹¹C]N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)benzylamine)</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₁₅H₁₅N₃S Molar Mass: 269.37 [296774-10-2] Off-white to brownish solid packaged in dark glass vials. Purity: > 98 % Certificates: CoA with NMR and IR spectra, and melting point (identity); HPLC (purity); GC (residual solvents) Chemical Name: CA index name: Benzonitrile, 3-amino-4-[[2-[(methylamino)methyl]phenyl]thio] Synonymes: N-Methyl-2-(2-amino-4-cyanophenylthio)-benzylamine; N-Desmethyl-DASB Literature: Same as product number 4300.</p>	<p>4301.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.</p> 

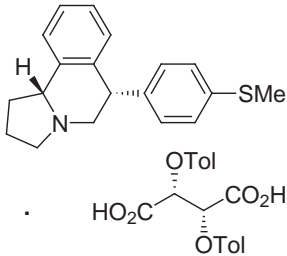
Product Number	Product	Order number / Unit
4310	<p>DASB</p> <p>Reference standard for [¹¹C]DASB ([¹¹C]N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)benzylamine)</p> <p>C₁₆H₁₇N₃S Molar Mass: 283.39 [627490-01-1] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzonitrile, 3-amino-4-[[2-[(dimethylamino)methyl]phenyl]thio] Synonymes: N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)-benzylamine; 3-Amino-4-(2-dimethylaminomethyl-phenylsulfanyl)-benzonitrile Literature: Houle S. et al. Imaging the serotonin transporter with positron emission tomography: initial human studies with [¹¹C]DAPP and [¹¹C]DASB. Eur. J. Nucl. Med. 2000, 29, 1719-1722. Wilson A.A. et al. Novel Radiotracers for imaging the serotonin transporter by positron emission tomography: synthesis, radiosynthesis, and in vitro and ex vivo evaluation of ¹¹C-labeled 2-(phenylthio)aralkylamines. J. Med. Chem. 2000, 43, 3103-3110.</p>	<p>4310.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

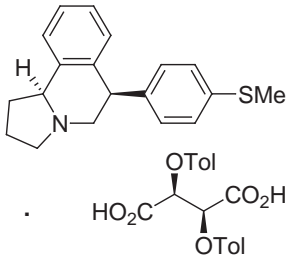
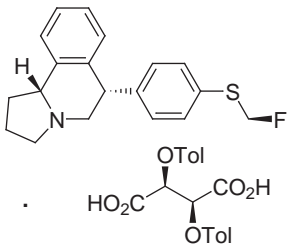
Product Number	Product	Order number / Unit
4311	<p>DASB (GMP)</p> <p>Reference standard for [¹¹C]DASB ([¹¹C]N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)benzylamine)</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₁₆H₁₇N₃S Molar Mass: 283.39 [627490-01-1] Yellowish solid packaged in dark glass vials. Purity: > 98 % Certificates: CoA with NMR and IR spectra, and melting point (identity); HPLC (purity); GC (residual solvents) Chemical Name: CA index name: Benzonitrile, 3-amino-4-[[2-[(dimethylamino)methyl]phenyl]thio] Synonymes: N,N-Dimethyl-2-(2-amino-4-cyanophenylthio)-benzylamine; 3-Amino-4-(2-dimethylaminomethyl-phenylsulfanyl)-benzonitrile Literature: Same as product number 4310.</p>	<p>4311.0050: 50 mg per vial Please inquire for customized filling and bulk quantities.</p> 

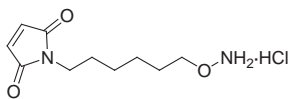
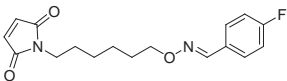
Product Number	Product	Order number / Unit
4320	<p>AFM precursor Precursor for [¹¹C]AFM ([¹¹C]2-(2-(Dimethylaminomethyl)phenylthio)-5-fluoromethylphenylamine)</p> <p>$C_{15}H_{17}FN_2S \cdot x HCl$ Molar Mass: 276.37 (free base) [844699-84-9] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 90 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: Benzenemethanamine, 2-[[2-amino-4-(fluoromethyl)phenyl]thio]-N-methyl-, hydrochloride salt Synonymes: n/a Literature: Huang Y. et al. Comparative Evaluation in Nonhuman Primates of Five PET Radiotracers for Imaging the Serotonin Transporters: [¹¹C]McN 5652, [¹¹C]ADAM, [¹¹C]DASB, [¹¹C]DAPA, and [¹¹C]AFM. J. Cereb. Blood Flow Metab. 2002, 22, 1377-1398. Huang Y. et al. Fluorinated Analogues of ADAM as New PET Radioligands for the Serotonin Transporter : Synthesis and Pharmacological Evaluation. J. Labelled Compd. Radiopharm. 2001, 44, Suppl. 1, S18-S20. Oya S. et al. New PET Imaging Agent for the Serotonin Transporter: [¹⁸F]ACF (2-[(2-Amino-4-chloro-5-fluorophenyl)thio]-N,N-dimethyl-benzenemethanamine). J. Med. Chem. 2002, 45, 4716-23.</p>	<p>4320.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>  <p>· x HCl</p>

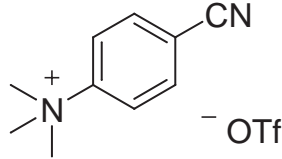
Product Number	Product	Order number / Unit
4330	<p>AFM standard Reference standard for [¹¹C]AFM and [¹⁸F]AFM ([¹¹C]2-(2-(Dimethylaminomethyl)phenylthio)-5-fluoromethylphenylamine)</p> <p>$C_{16}H_{19}FN_2S \cdot x HCl$ Molar Mass: 290.40 (free base) [627490-40-8] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 90 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: Benzenemethanamine, 2-[[2-amino-4-(fluoromethyl)phenyl]thio]-N,N-dimethyl-, hydrochloride salt Synonymes: 2-(2-Dimethylaminomethyl-phenylsulfanyl)-5-fluoromethyl-phenylamine hydrochloride salt Literature: Huang Y. et al. Comparative Evaluation in Nonhuman Primates of Five PET Radiotracers for Imaging the Serotonin Transporters: [¹¹C]McN 5652, [¹¹C]ADAM, [¹¹C]DASB, [¹¹C]DAPA, and [¹¹C]AFM. J. Cereb. Blood Flow Metab. 2002, 22, 1377-1398. Huang Y. et al. Fluorinated Analogues of ADAM as New PET Radioligands for the Serotonin Transporter : Synthesis and Pharmacological Evaluation. J. Labelled Compd. Radiopharm. 2001, 44, Suppl. 1, S18-S20. Oya S. et al. New PET Imaging Agent for the Serotonin Transporter: [¹⁸F]ACF (2-[(2-Amino-4-chloro-5-fluorophenyl)thio]-N,N-dimethyl-benzenemethanamine). J. Med. Chem. 2002, 45, 4716-23.</p>	<p>4330.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>  <p>· x HCl</p>

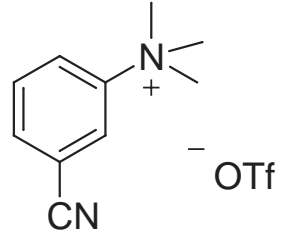
Product Number	Product	Order number / Unit
4360	<p>(+)-McN 5652 Thiobutyrate Precursor for (+)-[¹¹C]McN 5652</p> <p>$C_{22}H_{25}NOS \cdot C_4H_6O_6$ Molar Mass: 501.59 [167548-65-4] (free base) Off-white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: Butanethioic acid, S-[4-(1,2,3,5,6,10b-hexahydropyrrolo[2,1-a]isoquinolin-6-yl)phenyl] ester, trans-(+), (2R,3R)-2,3-dihydroxybutanedioate Synonyms: Thiobutyric acid S-[4-(1,2,3,5,6,10b-hexahydro-pyrrolo[2,1-a]isoquinolin-6-yl)-phenyl] ester; compound with 2,3-dihydroxy-succinic acid; S-Bu-McN-5652 tartrate Literature: Parsey R.V. et al. In Vivo Quantification of Brain Serotonin Transporters in Humans Using [¹¹C]McN 5652. J. Nucl. Med. 2000, 41, 1465-1477. Buck A. et al. Evaluation of Serotonergic Transporters Using PET and [¹¹C]McN 5652: Assessment of Methods. J. Cereb. Blood Flow Metab. 2000, 20, 253-262. Suehiro M. et al. An improved method for the synthesis of radiolabeled McN5652 via thioester precursors. Nucl. Med. Biol. 1995, 22, 543-545.</p>	<p>4360.0001: 1 mg per vial 4360.0005: 5 mg per vial Please inquire for customized filling and bulk quantities.</p> 

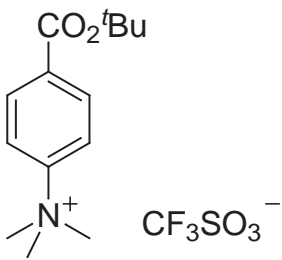
Product Number	Product	Order number / Unit
4370	<p>(+)-McN 5652 Reference standard for (+)-[¹¹C]McN 5652</p> <p>$C_{19}H_{21}NS \cdot C_{20}H_{18}O_8$ Molar Mass: 681.79 [259145-56-7] [103729-16-4] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: Butanedioic acid, 2,3-bis[(4-methylbenzoyl)oxy]-, (2R,3R)-, compd. with (6S,10bR)-1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]pyrrolo[2,1-a]isoquinoline; Pyrrolo[2,1-a]isoquinoline, 1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]-, (6S,10bR)-, (2R,3R)-2,3-bis[(4-methylbenzoyl)oxy]butanedioate Synonyms: Pyrrolo[2,1-a]isoquinoline, 1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]-, (6S,10bR)-, (2R,3R)-2,3-di-(O-4-methylphenyloxy)butanedioate; (+)-McN 5652, (-)-di-O-toluyltartrate salt Literature: Zessin J. et al. Efficient Synthesis of Enantiomerically Pure Thioester Precursors of [¹¹C]MCN-5652 from Racemic MCN-5652. J. Labelled Compd. Radiopharm. 1999, 42, 1301-12. Parsey R.V. et al. In Vivo Quantification of Brain Serotonin Transporters in Humans Using [¹¹C]McN 565J. Nucl. Med. 2000, 41, 1465-1477. Buck A. et al. Evaluation of Serotonergic Transporters Using PET and [¹¹C]McN 5652: Assessment of Methods. J. Cereb. Blood Flow Metab. 2000, 20, 253-262. Suehiro M. et al. An improved method for the synthesis of radiolabeled McN5652 via thioester precursors. Nucl. Med. Biol. 1995, 22, 543-5.</p>	<p>4370.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

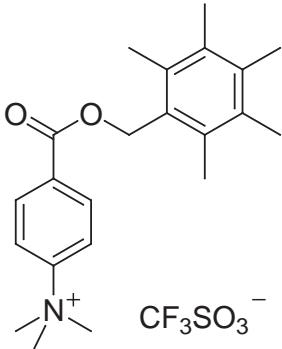
Product Number	Product	Order number / Unit
4380	<p>(-)-McN 5652 Reference standard for (-)-[¹¹C]McN 5652</p> <p>C₁₉H₂₁NS · C₂₀H₁₈O₈ Molar Mass: 681.79 [262352-33-0] [103729-13-1] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index names: Butanedioic acid, 2,3-bis[(4-methylbenzoyl)oxy]-, (2S,3S)-, compd. with (6R,10bS)-1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]pyrrolo[2,1-a]isoquinoline (1:1); Pyrrolo[2,1-a]isoquinoline, 1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]-, (6R,10bS)-, (2S,3S)-2,3-bis[(4-methylbenzoyl)oxy]butanedioate (1:1) Synonyms: Pyrrolo[2,1-a]isoquinoline, 1,2,3,5,6,10b-hexahydro-6-[4-(methylthio)phenyl]-, (6R,10bS)-, (2S,3S)-2,3-di-(O-4-methylphenyloxy)butanedioate; (-)-McN 5652, (+)-di-O-toluytartrate salt Literature: Zessin J. et al. Efficient Synthesis of Enantiomerically Pure Thioester Precursors of [¹¹C]MCN-5652 from Racemic MCN-5652. J. Labelled Compd. Radiopharm. 1999, 42, 1301-12. Parsey R.V. et al. In Vivo Quantification of Brain Serotonin Transporters in Humans Using [¹¹C]McN 565J. Nucl. Med. 2000, 41, 1465-1477. Buck A. et al. Evaluation of Serotonergic Transporters Using PET and [¹¹C]McN 5652: Assessment of Methods. J. Cereb. Blood Flow Metab. 2000, 20, 253-262. Suehiro M. et al. An improved method for the synthesis of radiolabeled McN5652 via thioester precursors. Nucl. Med. Biol. 1995, 22, 543-5.</p>	<p>4380.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4381	<p>(+)-Fluoromethyl-McN 5652 Reference standard for S-([¹⁸F]Fluoromethyl)-(+)-McN5652</p> <p>C₁₉H₂₀FNS · C₂₀H₁₈O₈ Molar Mass: 699.79 [432038-21-6] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra; optical rotation Chemical Name: Pyrrolo[2,1-a]isoquinoline, 6-[4-[(fluoromethyl)thio]-phenyl]-1,2,3,5,6,10b-hexahydro-, (6S,10bR)-, (2S,3S)-2,3-di-(O-4-methylphenyloxy)butanedioate Synonyms: (+)-Fluoromethyl-McN 5652, (-)-di-O-toluytartrate salt Literature: Zessin J. et al. Synthesis of S-([¹⁸F]fluoromethyl)-(+)-McN5652 as a potential PET radioligand for the serotonin transporter. Nucl Med Biol. 2001, 28, 857-863. Solin O. et al. S-[¹⁸F]fluoromethyl-(+)-McN5652, a PET tracer for the serotonin transporter: evaluation in rats. Synapse 2003, 47, 45-53. Brust P. et al. Positron emission tomography imaging of the serotonin transporter in the pig brain using [¹¹C](+)-McN5652 and S-([¹⁸F]fluoromethyl)-(+)-McN5652. Synapse 2003, 47, 143-151.</p>	<p>4381.0005: 5 mg per vial 4381.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

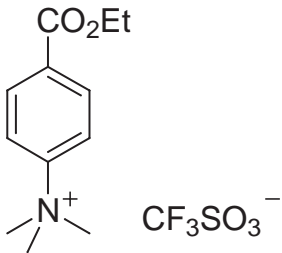
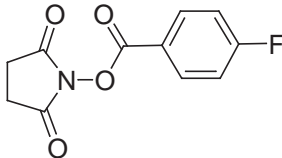
Product Number	Product	Order number / Unit
4383	FBAM precursor Precursor for [¹⁸F]FBAM (N-[6-(4-[¹⁸F]fluorobenzylidene)aminooxyhexyl]maleimide) $C_{10}H_{17}ClN_2O_3$ Molar Mass: 248.71 [937025-28-0] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1H-Pyrrole-2,5-dione, 1-[6-(aminoxy)hexyl]-, hydrochloride Synonymes: N-(6-aminoxyhexyl)maleimide; 1-(6-Aminoxy-hexyl)-pyrrole-2,5-dione hydrochloride Literature: Wuest F. et al. Labeling of low-density lipoproteins using the ¹⁸ F-labeled thiol-reactive reagent N-[6-(4-[¹⁸ F]fluorobenzylidene)aminooxyhexyl]maleimide. Nucl. Med. Biol. 2007, 34, 5-15.	4383.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 
4384	FBAM standard Reference standard for [¹⁸F]FBAM (N-[6-(4-[¹⁸F]fluorobenzylidene)aminooxyhexyl]maleimide) $C_{17}H_{19}FN_2O_3$ Molar Mass: 318.34 [937025-29-1] Colourless solid packaged in glass vials. Purity: > 90 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Benzaldehyde, 4-fluoro-, O-[6-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)hexyl]oxime, [C(E)]- Synonymes: N-[6-(4-fluorobenzylidene)aminooxyhexyl]maleimide; 4-Fluoro-benzaldehyde O-[6-(2,5-dioxo-2,5-dihydro-pyrrol-1-yl)-hexyl]-oxime Literature: Wuest F. et al. Labeling of low-density lipoproteins using the ¹⁸ F-labeled thiol-reactive reagent N-[6-(4-[¹⁸ F]fluorobenzylidene)aminooxyhexyl]maleimide. Nucl. Med. Biol. 2007, 34, 5-15.	4384.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

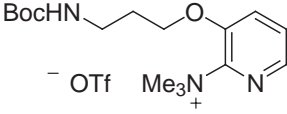
Product Number	Product	Order number / Unit
4385	<p>CPTMA Precursor for [¹⁸F]FBA, [¹⁸F]FBBA and [¹⁸F]FBAPM</p> <p>C₁₀H₁₃N₂ · CF₃O₃S Molar Mass: 310.29 [124915-01-1] Yellowish to slightly greenish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Benzenaminium, 4-cyano-N,N,N-trimethyl-, 1,1,1-trifluoromethanesulfonate (1:1) Synonymes: Benzenaminium, 4-cyano-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1); Methanesulfonic acid, trifluoro-ion(1-), 4-cyano-N,N,N-trimethylbenzenaminium; 4-Cyano-N,N,N-trimethylanilinium triflate Literature: Dollé F. et al. A general method for labeling oligodeoxynucleotides with ¹⁸F for in vivo pet imaging. J. Labelled Compd. Radiopharm. 1997, 39, 319-330.</p>	<p>4385.0010: 10 mg per vial 4385.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

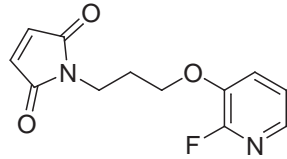
Product Number	Product	Order number / Unit
4386	CMTMA Precursor for meta-[¹⁸F]Fluorobenzylguanidine $C_{11}H_{13}F_3N_2O_3S$ Molar Mass: 310.29 [51570-69-5] (CMTMA cation) Colourless solid packaged in glass vials. Purity: > 95% Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: 3-Cyano-N,N,N-trimethylanilinium triflate Synonyms: 3-Nitrilo phenyltrimethylammonium trifluoromethanesulfonate;(3-Cyano-phenyl)-trimethyl-ammonium, trifluoro-methanesulfonate; Benzenaminium, 3-cyano-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1); meta-[¹⁸ F]Fluorobenzylguanidine precursor Literature: Garg P.K. et al. Synthesis and Preliminary Evaluation of para- and meta-[¹⁸ F]Fluorobenzylguanidine. Nucl. Med. Biol. 1994, 21, 97-103.	Please inquire for customized filling and bulk quantities. 

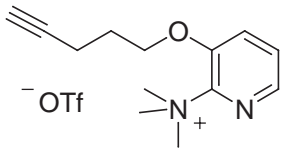
Product Number	Product	Order number / Unit
4389	TBAB Precursor for [¹⁸F]FB (4-[¹⁸F]Fluorobenzoic acid) $C_{15}H_{22}F_3NO_5S$ Molar Mass: 385.40 [660845-84-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzenaminium, 4-[(1,1-dimethylethoxy)carbonyl]-N,N,N-trimethyl-, 1,1,1-trifluoromethanesulfonate (1:1) Synonyms: 4-tert-Butoxycarbonylmethyl-phenyl)-trimethyl-ammonium; trifluoro-methanesulfonate; tert.-Butyl 4-N,N,N-trimethylammoniumbenzoate triflate; Benzenaminium, 4-[(1,1-dimethylethoxy)carbonyl]-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) Literature: Wüst F. et al. Radiolabelling of isopeptide N ^ε (γ-glutamyl)-L-lysine by conjugation with N-succinimidyl-4-[¹⁸ F]fluorobenzoate. Appl. Radiat. Isot. 2003, 59, 43-48. Maeding P. et al. Module-assisted synthesis of the bifunctional labelling agent N-succinimidyl 4-[¹⁸ F]fluorobenzoate ([¹⁸ F]SFB). Appl. Radiat. Isot. 2005, 63, 329-332.	4389.0010: 10 mg per vial 4389.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

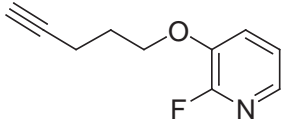
Product Number	Product	Order number / Unit
4390	<p>PMBAB Precursor for [¹⁸F]FB (4-[¹⁸F]Fluorobenzoic acid) $C_{22}H_{30}NO_2 \cdot CF_3O_3S$ Molar Mass: 489.55 [223699-69-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Benzenaminium, N,N,N-trimethyl-4-[[[(pentamethylphenyl)methoxy]carbonyl]-, salt with trifluoromethanesulfonic acid (1:1) Synonymes: Pentamethylbenzyl-(4-trimethylammonium)benzoate, trifluoroacetate salt Literature: Kiesewetter D.O. et al. Fluoro-, bromo-, and iodopaclitaxel derivatives: synthesis and biological evaluation. Nucl. Med. Biol. 2003, 30, 11-24. Lang L. et al. Development of Fluorine-18-Labeled 5-HT1A-Antagonists, J. Med. Chem. 1999, 42, 1576-1586.</p>	<p>4390.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

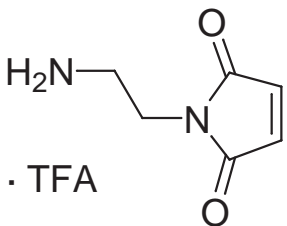
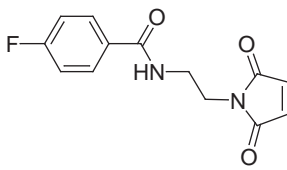
Product Number	Product	Order number / Unit
4391	<p>FB precursor Precursor for [¹⁸F]FB (4-[¹⁸F]Fluorobenzoic acid) $C_{12}H_{18}NO_2 \cdot CF_3O_3S$ Molar Mass: 357.35 [124915-06-6] Colourless solid packaged in dark glass crimp cap vials (4391.0010) or screw cap vials (4391.0100). Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Benzenaminium, 4-(ethoxycarbonyl)-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) Synonyms: 4-(Ethoxycarbonyl)-N,N,N-trimethylbenzenaminium triflate; 4-(Ethoxycarbonyl)-N,N,N-trimethylbenzenaminium salt with trifluoromethanesulfonic acid; Methanesulfonic acid, trifluoro-, ion(1-), 4-(ethoxycarbonyl)-N,N,N-Trimethylbenzenaminium Literature: Kilbourn M.R. et al. Aryltrimethylammonium Trifluoromethane-sulfonates as Precursors to Aryl [¹⁸F]Fluorides: Improved Synthesis of [¹⁸F]GBR-13119. J. Labelled Compd. Radiopharm. 1989, 27, 823-833.</p>	<p>4391.0010: 10 mg per vial 4391.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4392	<p>SFB Reference standard for [¹⁸F]SFB (N-Succinimidyl 4-[¹⁸F]Fluorobenzoate) $C_{11}H_8FNO_4$ Molar Mass: 237.18 [66134-67-6] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 2,5-Pyrrolidinedione, 1-[(4-fluorobenzoyl)oxy]- Synonyms: N-Succinimidyl 4-Fluorobenzoate; Succinimido p-fluorobenzoate Literature: Zalutsky M.R. et al. Labeling Proteins with Fluorine-18 Using N-Succinimidyl 4-[¹⁸F]Fluorobenzoate. Nucl. Med. Biol. 1992, 19, 275-281. Wester H.-J. et al. A comparative study of N.C.A. Fluorine-18 labeling of proteins via acylation and photochemical conjugation. Nucl. Med. Biol. 1996, 23, 365-372.</p>	<p>4392.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

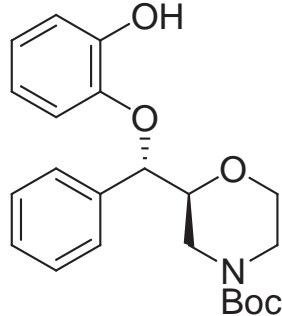
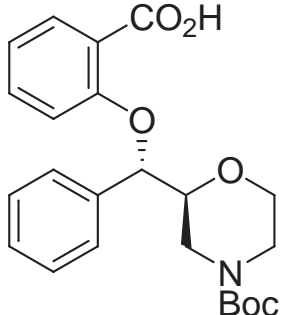
Product Number	Product	Order number / Unit
4393	<p>[¹⁸F]FPyBrA/[¹⁸F]FPyME precursor (2-Bromo-N-[3-(2-[¹⁸F]fluoropyridin-3-yloxy)propylacetamide) resp. (1-[3-(2-[¹⁸F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione) $C_{16}H_{28}N_3O_3 \cdot CF_3O_3S$ Molar Mass: 459.48 [640749-64-0] Colourless to white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2-Pyridinaminium, 3-[3-[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-N,N,N-trimethyl-, 1,1,1-trifluoromethanesulfonate (1:1) Synonymes: n/a Literature: Ducongé F. et al. Fluorine-18-Labeled Phospholipid Quantum Dot Micelles for in Vivo Multimodal Imaging from Whole Body to Cellular Scales. <i>Bioconjugate Chem.</i> 2008, 19, 1921-1926. De Bruin B. et al. 1-[3-(2-[¹⁸F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione: Design, Synthesis, and Radiosynthesis of a New [¹⁸F]Fluoropyridine-Based Maleimide Reagent for the Labeling of Peptides and Proteins. <i>Bioconjugate Chem.</i> 2005, 16, 406-420. Kuhnast B. et al. Design and Synthesis of a New [¹⁸F]Fluoropyridine-Based Haloacetamide Reagent for the Labeling of Oligonucleotides: 2-Bromo-N-[3-(2-[¹⁸F]fluoropyridin-3-loxy)propyl]acetamide. <i>Bioconjugate Chem.</i> 2004, 15, 617-627.</p>	<p>4393.0010: 10 mg per vial 4393.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

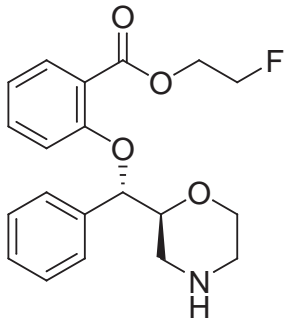
Product Number	Product	Order number / Unit
4394	<p>FPyME standard Reference standard for [¹⁸F]FPyME (1-[3-(2-[¹⁸F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione) $C_{12}H_{11}FN_2O_3$ Molar Mass: 250.23 [640749-61-7] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 1H-Pyrrole-2,5-dione, 1-[3-[(2-fluoro-3-pyridinyl)oxy]propyl]- Synonymes: 1-[3-(2-Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione Literature: de Bruin B. et al. 1-[3-(2-[¹⁸F]Fluoropyridin-3-yloxy)propyl]pyrrole-2,5-dione: Design, Synthesis, and Radiosynthesis of a New [¹⁸F]Fluoropyridine-Based Maleimide Reagent for the Labeling of Peptides and Proteins. <i>Bioconjugate Chem.</i> 2005, 16, 406.</p>	<p>4394.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

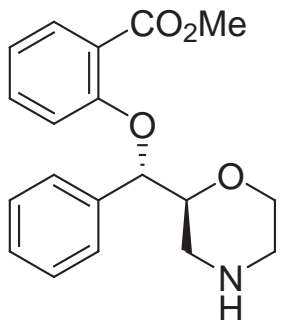
Product Number	Product	Order number / Unit
4396	<p>[¹⁸F]FPyKYNE precursor</p> <p>2-[¹⁸F]Fluoro-3-pent-4-yn-1-yloxy pyridine $C_{13}H_{19}N_2O \cdot CF_3O_3S$ Molar Mass: 368.37 [1161009-68-2] Colourless to off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: 2-Pyridinaminium, N,N,N-trimethyl-3-(4-pentyn-1-yloxy)-, 1,1,1-trifluoromethanesulfonate (1:1)</p> <p>Synonyms: n/a</p> <p>Literature: Kuhnast B. et al. [¹⁸F]FPyKYNE, a fluoropyridine-based alkyne reagent designed for the fluorine-18 labelling of macromolecules using click chemistry. J. Labelled Compd. Radiopharm. 2008, 51, 336-342.</p>	<p>4396.0010: 10 mg per vial 4396.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

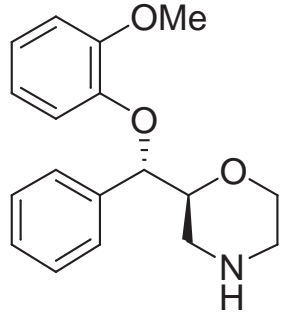
Product Number	Product	Order number / Unit
4397	<p>FPyKYNE</p> <p>Reference standard for [¹⁸F]FPyKYNE 2-[¹⁸F]Fluoro-3-pent-4-yn-1-yloxy pyridine $C_{10}H_{10}FNO$ Molar Mass: 179.19 [1161009-63-7] Yellow liquid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Pyridine, 2-fluoro-3-(4-pentyn-1-yloxy)-</p> <p>Synonyms: 2-Fluoro-3-pent-4-ynyloxy-pyridine</p> <p>Literature: Dollé F. et al. [¹⁸F]FPyKYNE, a fluoropyridine-based alkyne reagent designed for the fluorine-18 labelling of macromolecules using click chemistry. J. Labelled Compd. Radiopharm. 2008, 51, 336-342.</p>	<p>4397.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

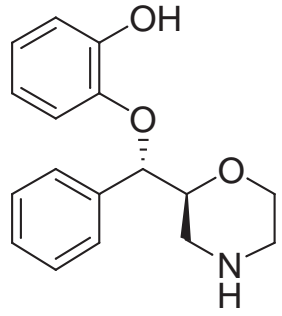
Product Number	Product	Order number / Unit
4398	<p>FBEM precursor</p> <p>Precursor for [¹⁸F]FBEM (N-[2-(4-[¹⁸F]-fluorobenzamido)ethyl]-maleimide) $C_8H_9F_3N_2O_4$ Molar Mass: 254.16 [146474-00-2] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 1H-Pyrrole-2,5-dione, 1-(2-aminoethyl)-, 2,2,2-trifluoroacetate (1:1) Synonymes: N-(2-Aminoethyl)maleimide trifluoroacetate salt; 2-Maleimidoethylamine trifluoroacetate salt; 2-Maleimidoethylamine trifluoroacetate; N-(2-Aminoethyl)maleimide trifluoroacetate; 1H-Pyrrole-2,5-dione, 1-(2-aminoethyl)-, mono(trifluoroacetate); 2-(2,5-Dioxo-2,5-dihydro-pyrrol-1-yl)-ethylamine trifluoroacetate Literature: Cai W. et al. A Thiol-Reactive ¹⁸F-Labeling Agent, N-[2-(4-¹⁸F-Fluorobenzamido)Ethyl]Maleimide, and Synthesis of RGD Peptide-Based Tracer for PET Imaging of $\alpha\nu\beta 3$ Integrin Expression. J Nucl. Med. 2006, 47, 1172-1180. Kiesewetter D.O. et al. Radiolabeling of HER2-specific Affibody molecule with F-18. J. Fluorine Chem. 2008, 129, 799-806.</p>	<p>4398.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4399	<p>FBEM standard</p> <p>Reference standard for [¹⁸F]FBEM (N-[2-(4-[¹⁸F]-fluorobenzamido)ethyl]-maleimide) $C_{13}H_{11}FN_2O_3$ Molar Mass: 262.24 [1089194-09-1] Colourless solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Benzamide, N-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]-4-fluoro- Synonymes: N-[2-(4-[¹⁸F]-fluorobenzamido)ethyl]-maleimide; N-[2-(2,5-Dioxo-2,5-dihydro-pyrrol-1-yl)-ethyl]-4-fluoro-benzamide Literature: Cai W. et al. A Thiol-Reactive ¹⁸F-Labeling Agent, N-[2-(4-¹⁸F-Fluorobenzamido)Ethyl]Maleimide, and Synthesis of RGD Peptide-Based Tracer for PET Imaging of $\alpha\nu\beta 3$ Integrin Expression. J Nucl. Med. 2006, 47, 1172-1180. Kiesewetter D.O. et al. Radiolabeling of HER2-specific Affibody molecule with F-18. J. Fluorine Chem. 2008, 129, 799-806.</p>	<p>4399.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

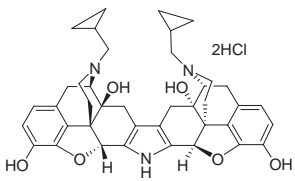
Product Number	Product	Order number / Unit
4400	<p>(2S,3S)-N-Boc-norethylreboxetine Precursor for [¹¹C]MeNER ([¹¹C]Methyl norethyl reboxetine) $C_{22}H_{27}NO_5$ Molar Mass: 385.45 [754988-84-6] Colourless to yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Morpholinecarboxylic acid, 2-[(S)-(2-hydroxyphenoxy)-phenylmethyl]-, 1,1-dimethylethyl ester, (2S)- Synonyms: Desethylreboxetine Literature: Lin K.-S. et al. Synthesis, enantiomeric resolution, F-18 labeling and biodistribution of reboxetine analogs: promising radioligands for imaging the norepinephrine transporter with positron emission tomography. Nucl. Med. Biol. 2005, 32, 415-422.</p>	<p>4400.0010: 10 mg per vial 4400.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4402	<p>(2S,3S)-N-Boc-carboxylreboxetine Precursor for [¹¹C]Methylreboxetinecarboxylate Precursor for [¹⁸F]Fluoroethylreboxetinecarboxylate $C_{23}H_{27}NO_6$ Molar Mass: 413.46 [1016545-04-2] Yellowish solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Morpholinecarboxylic acid, 2-[(S)-(2-carboxyphenoxy)-phenylmethyl]-, 4-(1,1-dimethylethyl) ester, (2S)- Synonyms: Reboxetine acid Literature: Zheng F. et al. Synthesis, in vitro characterization, and radiolabeling of reboxetine analogs as potential PET radioligands for imaging the norepinephrine transporter. Bioorg. Med. Chem. 2008, 16, 783-793.</p>	<p>4402.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

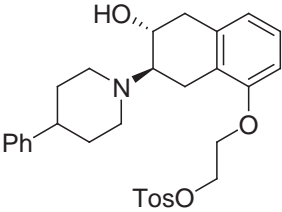
Product Number	Product	Order number / Unit
4403	<p>(2S,3S)-Carboxylreboxetine fluoroethyl ester trifluoroacetate Reference standard for [¹⁸F]Fluoroethylreboxetinecarboxylate</p> <p>$C_{20}H_{22}FNO_4 \cdot C_2HF_3O_2$ Molar Mass: 473.41 CAS-RN not yet assigned Light brown oil packaged in dark glass crimp cap vials. Purity: > 90 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: Benzoic acid, 2-[(S)-(2S)-2-morpholinylphenylmethoxy]-, 2-fluoroethyl ester, trifluoroacetate salt Synonyms: Reboxetine acid fluoroethyl ester, trifluoroacetate salt Literature: no literature reference available</p>	<p>4403.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>  <p>· CF₃CO₂H</p>

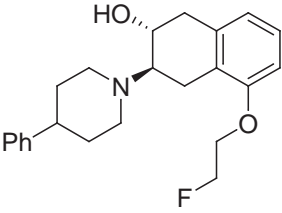
Product Number	Product	Order number / Unit
4405	<p>Methylreboxetinecarboxylate Reference standard for [¹¹C]Methylreboxetinecarboxylate</p> <p>$C_{19}H_{21}NO_4 \cdot CF_3CO_2H$ Molar Mass: 441.39 [1016545-13-3] (free base) Pinkish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: Benzoic acid, 2-[(S)-(2S)-2-morpholinylphenylmethoxy]-, methyl ester, trifluoroacetate salt Synonyms: (2S,3S)-2-[α-(2-(Carbomethoxy)phenoxy)benzyl]morpholine, trifluoroacetate salt Literature: Zheng F. et al. Synthesis, in vitro characterization, and radiolabeling of reboxetine analogs as potential PET radioligands for imaging the norepinephrine transporter. Bioorg. Med. Chem. 2008, 16, 783-793.</p>	<p>4405.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p>  <p>· CF₃CO₂H</p>

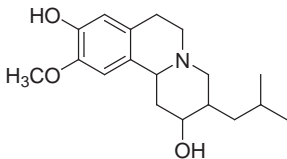
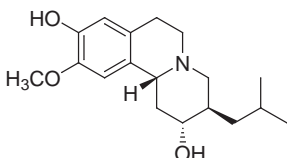
Product Number	Product	Order number / Unit
4406	<p>(2S,3S)-Methylreboxetine Reference standard for [¹¹C]MeNER ([¹¹C]Methyl norethyl reboxetine) $C_{18}H_{21}NO_3$ Molar Mass: 299.36 [105018-14-2] Colourless to white solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: Morpholine, 2-[(S)-(2-methoxyphenoxy)phenylmethyl]-, (2S)-; Morpholine, 2-[(2-methoxyphenoxy)phenylmethyl]-, [S-(R*,R*)]- Synonyms: (S,S)-2-(α-(2-Methoxyphenoxy)benzyl)morpholine; Methyl norethyl reboxetine; MeNER Literature: Schou M. et al. Specific in vivo binding to the norepinephrine transporter demonstrated with the PET radioligand, (S,S)-[¹¹C]MeNER. Nucl. Med. Biol. 2003, 30, 707-714.</p>	<p>4406.0010: 10 mg per vial 4406.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

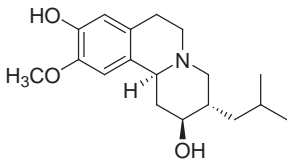
Product Number	Product	Order number / Unit
4407	<p>(2S,3S)-Desethylreboxetine Precursor for [¹¹C]MeNER ([¹¹C]Methyl norethyl reboxetine) $C_{17}H_{19}NO_3$ Molar Mass: 285.34 [252570-31-3] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum; optical rotation Chemical Name: CA index name: Phenol, 2-[(S)-(2S)-2-morpholinylphenylmethoxy]- Synonyms: (+)-(2S,3S)-2-[2-Morpholinylphenylmethoxy]phenol; (2S,3S)-NH-norethylreboxetine Literature: Ding Y.-S. et al. Synthesis, enantiomeric resolution, F-18 labeling and biodistribution of reboxetine analogs: promising radioligands for imaging the norepinephrine transporter with positron emission tomography. Nucl. Med. Biol. 2005, 32, 415-422. Halldin C. et al. Specific in vivo binding to the norepinephrine transporter demonstrated with the PET radioligand, (S,S)-[¹¹C]MeNER. Nucl. Med. Biol. 2003, 30, 707-714.</p>	<p>4407.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

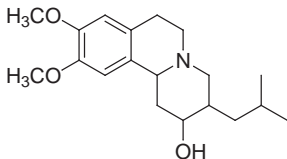
Product Number	Product	Order number / Unit
4500	<p>Norbinaltorphimine dihydrochloride</p> <p>Highly selective kappa opioid receptor antagonist</p> <p>$C_{40}H_{43}N_3O_6 \cdot 2\text{HCl}$ Molar Mass: 734.71</p> <p>[113158-34-2] [105618-26-6] (free base)</p> <p>Tan solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H NMR spectrum</p> <p>Chemical Name: CA index name: 4,8:11,15-Dimethano-20H-bisbenzofuro[2,3-a:3',2'-i]dipyrido[4,3-b:3',4'-h]carbazole-1,8a,10a,18-tetrol, 7,12-bis(cyclopropylmethyl)-5,6,7,8,9,10,11,12,13,14,19a,20b-dodecahydro-, hydrochloride (1:2), (4bS,8R,8aS,10aS,11R,14aS,19aR,20bR)-</p> <p>Synonyms: NorBNI; N-Desmethylnaltorphimine; N-Demethylnaltorphimine dihydrochloride</p> <p>Literature: Portoghese P.S. et al. Binaltorphimine and nor-binaltorphimine, potent and selective kappa-opioid receptor antagonists. Life Sci. 1987, 40, 1287-1292. Takemori A.E. et al. Nor-binaltorphimine, a highly selective kappa-opioid antagonist in analgesic and receptor binding assays. J. Pharmacol. Exp. Ther. 1988, 246, 255-258. Lambert P.D. et al. The effect of central blockade of kappa-opioid receptors on neuropeptide Y-induced feeding in the rat. Brain Res. 1993, 629, 146-148.</p>	<p>4500.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

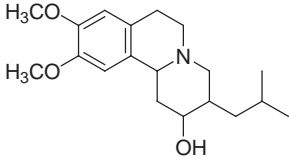
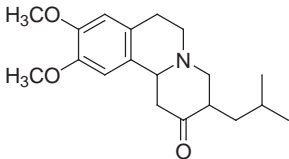
Product Number	Product	Order number / Unit
4600	<p>(-)-TEBV Precursor for [¹⁸F]FEBV</p> <p>C₃₀H₃₅NO₅S Molar Mass: 521.67 [153215-71-5] Colourless crystals packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: 2-Naphthalenol, 1,2,3,4-tetrahydro-5-[2-[[[(4-methyl-phenyl)sulfonyl]oxy]ethoxy]-3-(4-phenyl-1-piperidinyl)-, (2R-trans)- Synonymes: (-)-5-(2-Tosyloxyethoxy)-benzovesamicol; (-)-(2R,3R)-trans-2-hydroxy-3-(4-phenylpiperidino)-5-(2-tosyloxyethoxy)-tetralin</p> <p>Literature: Mulholland G.K. et al. Synthesis of [¹⁸F]Fluoroethoxy-benzovesamicol, a radiotracer for cholinergic neurons. J. Labelled Compd. Radiopharm. 1993, 33, 583-591. Mulholland G.K. et al. [¹⁸F]Fluoroethoxy-Benzovesamicol, a PET Radiotracer for the Vesicular Acetylcholine Transporter and Cholinergic Synapses. Synapse 1998, 30, 263-274.</p>	<p>4600.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

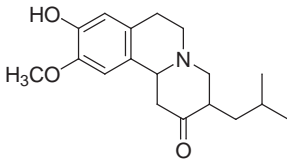
Product Number	Product	Order number / Unit
4610	<p>(-)-FEBV Reference standard for [¹⁸F]FEBV</p> <p>C₂₃H₂₈FNO₂ Molar Mass: 369.47 [153215-70-4] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: 2-Naphthalenol, 5-(2-fluoroethoxy)-1,2,3,4-tetrahydro-3-(4-phenyl-1-piperidinyl)-, (2R-trans)- Synonymes: (-)-5-(2-Fluoroethoxy)-benzovesamicol; (-)-(2R,3R)-trans-2-hydroxy-3-(4-phenylpiperidino)-5-(2-fluoroethoxy)-tetralin</p> <p>Literature: Mulholland G.K. et al. Synthesis of [¹⁸F]Fluoroethoxy-benzovesamicol, a radiotracer for cholinergic neurons. J. Labelled Compd. Radiopharm. 1993, 33, 583-591. Mulholland G.K. et al. [¹⁸F]Fluoroethoxy-Benzovesamicol, a PET Radiotracer for the Vesicular Acetylcholine Transporter and Cholinergic Synapses. Synapse 1998, 30, 263-274.</p>	<p>4610.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
4700	<p>(±)-9-O-Desmethyl-α-dihydrotetrabenazine Precursor for [11C]DTBZ</p> <p>$C_{18}H_{27}NO_3$ Molar Mass: 305.41 [5220-98-4] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 2H-Benzo[a]quinolizine-2,9-diol, 1,3,4,6,7,11b-hexahydro-10-methoxy-3-(2-methylpropyl)- Synonyms: 2H-Benzo[a]quinolizine-2,9-diol, 1,3,4,6,7,11b-hexahydro-3-isobutyl-10-methoxy-; 2H-Benzo[a]quinolizine-2,9-diol, 1,3,4,6,7,11b-hexahydro-3-isobutyl-10-methoxy-; rac-9-O-Desmethyl-DTBZ Literature: DaSilva J.N. et al. Characterization of [11C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156. Jewett D. M. et al. A Simple Synthesis of [11C]Dihydrotetrabenazine (DTBZ). Nucl. Med. Biol. 1997, 24, 197-199.</p>	<p>4700.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4710	<p>(+)-9-O-Desmethyl-α-dihydrotetrabenazine Precursor for (+)-[11C]DTBZ</p> <p>$C_{18}H_{27}NO_3$ Molar Mass: 305.41 CAS-RN not yet assigned Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum; HPLC Chemical Name: 2H-Benzo[a]quinolizine-2,9-diol, 1,3,4,6,7,11b-hexahydro-10-methoxy-3-(2-methylpropyl)-, (2R,3R,11bR) Synonyms: (+)-9-O-Desmethyl-DTBZ Literature: DaSilva J.N. et al. Characterization of [11C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156. Jewett D. M. et al. A Simple Synthesis of [11C]Dihydrotetrabenazine (DTBZ). Nucl. Med. Biol. 1997, 24, 197-199. Kilbourn M. et al. Absolute Configuration of (+)-α-Dihydro-tetrabenazine, an Active Metabolite of Tetrabenazine. Chirality 1997, 9, 59-62.</p>	<p>4710.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

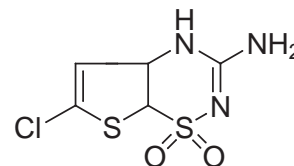
Product Number	Product	Order number / Unit
4720	<p>(-)-9-O-Desmethyl-α-dihydrotetrabenazine Precursor for (-)-[11C]DTBZ</p> <p>$C_{18}H_{27}NO_3$ Molar Mass: 305.41 CAS-RN not yet assigned Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum; HPLC Chemical Name: 2H-Benzo[a]quinolizine-2,9-diol, 1,3,4,6,7,11b-hexahydro-10-methoxy-3-(2-methylpropyl)-, (2S,3S,11bS) Synonyms: (-)-9-O-Desmethyl-DTBZ Literature: DaSilva J.N. et al. Characterization of [11C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156. Jewett D. M. et al. A Simple Synthesis of [11C]Dihydrotetrabenazine (DTBZ). Nucl. Med. Biol. 1997, 24, 197-199. Kilbourn M. et al. Absolute Configuration of (+)-α-Dihydro-tetrabenazine, an Active Metabolite of Tetrabenazine. Chirality 1997, 9, 59-62.</p>	<p>4720.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
4730	<p>(+)-α-Dihydrotetrabenazine Reference standard for [11C]Dihydrotetrabenazine</p> <p>$C_{19}H_{29}NO_3$ Molar Mass: 319.44 [3466-75-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 2H-Benzo[a]quinolizin-2-ol, 1,3,4,6,7,11b-hexahydro-3-isobutyl-9,10-dimethoxy- Synonyms: DTBZ; Dihydrotetrabenazine Literature: DaSilva J.N. et al. Characterization of [11C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156. Jewett D. M. et al. A Simple Synthesis of [11C]Dihydrotetrabenazine (DTBZ). Nucl. Med. Biol. 1997, 24, 197-199.</p>	<p>4730.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

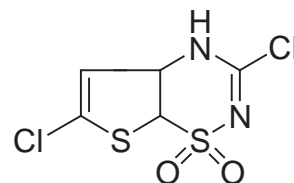
Product Number	Product	Order number / Unit
4731	<p>(±)-beta-Dihydrotrabenzazine</p> <p>$C_{19}H_{29}NO_3$ Molar Mass: 319.44</p> <p>CAS-RN not yet assigned</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum</p> <p>Chemical Name: 2H-Benzo[a]quinolizin-2-ol, 1,3,4,6,7,11b-hexahydro-9,10-dimethoxy-3-(2-methylpropyl)-; (racemic 1:1 mixture of 2S,3R,11bR and 2R,3S,11bS isomers)</p> <p>Synonyms: 3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-pyrido[2,1a]isoquinolin-2-ol; (±)-beta-DTBZ</p> <p>Literature: Lihsueh C.L. et al. In Vitro and in Vivo Studies of Benzisoquinoline Ligands for the Brain Synaptic Vesicle Monoamine Transporter J. Med. Chem. 1996, 39, 191-196.</p>	<p>4731.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
4732	<p>(±)-Tetrabenazine Reference standard for [^{11}C]Tetrabenazine</p> <p>$C_{19}H_{27}NO_3$ Molar Mass: 317.43</p> <p>[58-46-8]</p> <p>Colourless or nearly colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum</p> <p>Chemical Name: CA index name: 2H-benzo[a]quinolizin-2-one, 1,3,4,6,7,11b-hexahydro-9,10-dimethoxy-3-(2-methylpropyl)-; (racemic compound; 3,11b trans-tetrabenazine; 1:1 mixture of 3R,11bR and 3S,11bS isomers)</p> <p>Synonyms: 3-isobutyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-pyrido[2,1-a]isoquinolin-2-one; (±)-TBZ; Ro 1-9569; Nitoman; Xenazine</p> <p>Literature: DaSilva J.N. et al. Characterization of [^{11}C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156.</p>	<p>4732.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
4733	<p>(±)-9-O-Desmethyl-tetrabenazine Precursor for [¹¹C]Tetrabenazine</p> <p>C₁₈H₂₅NO₃ Molar Mass: 303.40 [149183-89-1] Colourless or nearly colourless solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 2H-benzo[a]quinolizin-2-one, 1,3,4,6,7,11b-hexahydro-9-hydroxy-10-methoxy-3-(2-methylpropyl)-; (racemic compound; 9-O-desmethyl (3,11b)-trans-tetrabenazine; 1:1 mixture of 3R,11bR and 3S,11bS isomers) Synonyms: 3-isobutyl-9-hydroxy-10-methoxy-1,3,4,6,7,11b-hexahydro- pyrido[2,1-a]isoquinolin-2-one; (±)-9-O-desmethyl-tetrabenazine; (±)-9-O-desmethyl-TBZ; Literature: DaSilva J.N. et al. Characterization of [¹¹C]Tetrabenazine as an In Vivo Radioligand for the Vesicular Monoamine Transporter. Nucl. Med. Biol. 1994, 21, 151-156.</p>	<p>4733.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

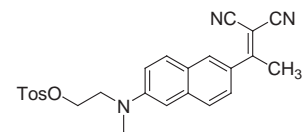
Product Number	Product	Order number / Unit
4900	Aminothiadiazine Precursor for [¹⁸F]Thiadiazine Reference standard for [¹¹C]Thiadiazine $C_7H_{12}ClN_3O_2S_2$ Molar Mass: 269.77 [319002-53-4] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 2H-Thieno[3,2-e]-1,2,4-thiadiazine-3-amine, 6-chloro-, 1,1-dioxide Synonymes: 3-Amino-6-chloro-4H-thieno[3,2-e]-1,2,4-thiadiazine 1,1-dioxide; 3-Amino-thiadiazine Literature: Nielsen F.E. et al. 6-Chloro-3-alkylamino-4H-thieno[3,2-e]-1,2,4-thiadiazine 1,1-Dioxide Derivatives Potently and Selectively Activate ATP Sensitive Potassium Channels of Pancreatic beta-Cells. J. Med. Chem. 2002, 45, 4171-4187.	4900.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



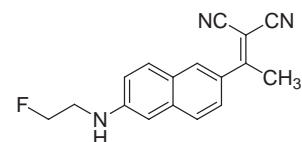
Product Number	Product	Order number / Unit
4910	Chlorothiadiazine Precursor for [¹⁸F]Thiadiazine $C_7H_{10}Cl_2N_2O_2S_2$ Molar Mass: 289.2 [194086-61-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 2H-Thieno[3,2-e]-1,2,4-thiadiazine, 3,6-dichloro-, 1,1-dioxide Synonymes: 3,6-Dichloro-4H-thieno[3,2-e]-1,2,4-thiadiazine 1,1-dioxide; 3-Chloro-thiadiazine Literature: Nielsen F.E. et al. 6-Chloro-3-alkylamino-4H-thieno[3,2-e]-1,2,4-thiadiazine 1,1-Dioxide Derivatives Potently and Selectively Activate ATP Sensitive Potassium Channels of Pancreatic beta-Cells. J. Med. Chem. 2002, 45, 4171-4187.	4910.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



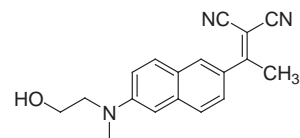
Product Number	Product	Order number / Unit
5000	DMTEAN Precursor for [¹⁸F]FDDNP <p>Due to patent related reasons we regret that we are not allowed to sell the product to the following countries: USA, Canada, Australia, Japan, Hongkong, and European Union.</p> <p>$C_{25}H_{23}N_3O_3S$ Molar Mass: 445.53 [259739-02-1]</p> <p>Reddish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: Propanedinitrile, [1-[6-[methyl[2-[(4-methylphenyl)-sulfonyl]oxy]ethyl]amino]-2-naphthalenyl]ethylidene]-</p> <p>Synonyms: 2-(1-6-[(2-(p-Toluolsulfonyloxy)ethyl)(methyl)amino]-2-naphthylethyliden)malonitrile</p> <p>Literature: Barrio J. et al. Neurofibrillary tangles (NFTs) and beta-amyloid plaques (A-beta) demonstrated in vivo in Alzheimer's disease (AD) patients. J. Cereb. Blood Flow Metab. 1999, 19, S2. Adgeppa E.D. et al. Binding Characteristics of Radiofluorinated 6-Dialkylamino-2-Naphthylethylidene Derivatives as Positron Emission Tomography Imaging Probes for beta-Amyloid plaques in Alzheimer's Disease. J. Neurosci. 2001, 21, RC189.</p>	5000.0010: 10 mg per vial 5000.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.



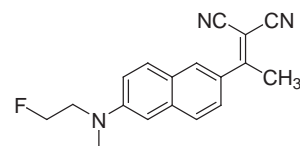
Product Number	Product	Order number / Unit
5010	DFEAN Precursor for [¹¹C]FDDNP <p>Due to patent related reasons we regret that we are not allowed to sell the product to the following countries: USA, Canada, Australia, Japan, Hongkong, and European Union.</p> <p>$C_{17}H_{14}FN_3$ Molar Mass: 279.31 [1161260-63-4] ([¹⁸F]DFEAN)</p> <p>Reddish solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra</p> <p>Chemical Name: Propanedinitrile, [1-[6-[2-fluoroethyl]amino]-2-naphthalenyl]ethylidene]-</p> <p>Synonyms: 2-1-[6-(2-Fluoro-ethylamino)-naphthalen-2-yl]-ethylidene-malonitrile</p> <p>Literature: Barrio J. et al. Neurofibrillary tangles (NFTs) and beta-amyloid plaques (A-beta) demonstrated in vivo in Alzheimer's disease (AD) patients. J. Cereb. Blood Flow Metab. 1999, 19, S2. Adgeppa E.D. et al. Binding Characteristics of Radiofluorinated 6-Dialkylamino-2-Naphthylethylidene Derivatives as Positron Emission Tomography Imaging Probes for beta-Amyloid plaques in Alzheimer's Disease. J. Neurosci. 2001, 21, RC189.</p>	5010.0010: 10 mg per vial 5010.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.



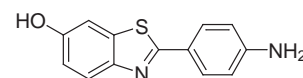
Product Number	Product	Order number / Unit
5020	DMEAN Precursor for [¹⁸F]FDDNP Due to patent related reasons we regret that we are not allowed to sell the product to the following countries: USA, Canada, Australia, Japan, Hongkong, and European Union. $C_{18}H_{17}N_3O$ Molar Mass: 291.35 [259739-01-0] Reddish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Propanedinitrile, [1-[6-[methyl[2-[hydroxy]ethyl]amino]-2-naphthalenyl]ethylidene]- Synonyms: 2-(1-6-[(2-Hydroxy)ethyl](methyl)amino]-2-naphthylethyliden)malonitrile; 2-(1,1-dicyanopropen-2-yl)-6-methyl-(2-hydroxyethyl)-amino-naphthalene Literature: Barrio J. et al. Neurofibrillary tangles (NFTs) and beta-amyloid plaques (A-beta) demonstrated in vivo in Alzheimer's disease (AD) patients. J. Cereb. Blood Flow Metab. 1999, 19, S2. Adgeppa E.D. et al. Binding Characteristics of Radiofluorinated 6-Dialkylamino-2-Naphthylethylidene Derivatives as Positron Emission Tomography Imaging Probes for beta-Amyloid plaques in Alzheimer's Disease. J. Neurosci. 2001, 21, RC189.	5020.0010: 10 mg per vial 5020.0020: 20 mg per vial Please inquire for customized filling and bulk quantities.



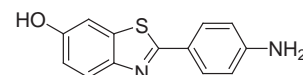
Product Number	Product	Order number / Unit
5030	DMFEAN Reference standard for [¹⁸F]FDDNP Due to patent related reasons we regret that we are not allowed to sell the product to the following countries: USA, Canada, Australia, Japan, Hongkong, and European Union. $C_{18}H_{16}FN_3$ Molar Mass: 293.34 [590365-47-2] Red solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Propanedinitrile, [1-[6-[(2-fluoroethyl)methylamino]-2-naphthalenyl]ethylidene]- Synonyms: 2-(1,1-Dicyanopropen-2-yl)-6-(fluoroethyl)-methylamino-naphthalene Literature: Barrio J. et al. Neurofibrillary tangles (NFTs) and beta-amyloid plaques (A-beta) demonstrated in vivo in Alzheimer's disease (AD) patients. J. Cereb. Blood Flow Metab. 1999, 19, S2. Adgeppa E.D. et al. Binding Characteristics of Radiofluorinated 6-Dialkylamino-2-Naphthylethylidene Derivatives as Positron Emission Tomography Imaging Probes for beta-Amyloid plaques in Alzheimer's Disease. J. Neurosci. 2001, 21, RC189.	5030.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



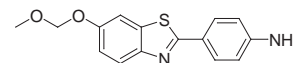
Product Number	Product	Order number / Unit
5100	6-OH-BTA-0 Precursor for [N-Methyl-¹¹C]-6-OH-BTA-1 Precursor for [O-Methyl-¹¹C]-6-MeO-BTA-0 $C_{13}H_{10}N_2OS$ Molar Mass: 242.3 [178804-18-7] Yellowish to green solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 6-Benzothiazolol, 2-(4-aminophenyl)- Synonyms: 2-(4'-Aminophenyl)-6-hydroxybenzothiazole; Pittsburgh Compound B (PiB)-precursor Literature: Mathis C.A. et al. Synthesis and Evaluation of ¹¹ C-Labeled 6-Substituted 2-Arylbenzothiazoles as Amyloid Imaging Agents J. Med. Chem. 2003, 46, 2740-2754. Wilson A.A. et al. A rapid one-step radiosynthesis of the (-)amyloid imaging radiotracer N-methyl-[¹¹ C]2-4'-methylaminophenyl)-6-hydroxybenzothiazole ([¹¹ C]-6-OH-BTA-1) J. Labelled Compd. Radiopharm. 2004, 47, 679-682.	5100.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.



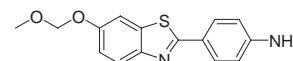
Product Number	Product	Order number / Unit
5101	6-OH-BTA-0 (GMP) Precursor for [N-Methyl-¹¹C]-6-OH-BTA-1 Precursor for [O-Methyl-¹¹C]-6-MeO-BTA-0 Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) $C_{13}H_9N_2OS$ Molar Mass: 242.3 [178804-18-7] Yellowish to green solid packaged in dark glass crimp cap vials. Purity: ≥ 97 % Certificates: CoA with NMR spectra (identity); HPLC (purity); GC (residual solvents, water content); Content Palladium (ICP-MS); microbiology test Chemical Name: CA index name: 6-Benzothiazolol, 2-(4-aminophenyl)- Synonyms: 2-(4'-Aminophenyl)-6-hydroxybenzothiazole; Pittsburgh Compound B (PiB)-precursor Literature: Same as product number 5100.	5101.0001: 1 mg per vial 5101.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

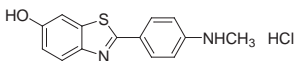


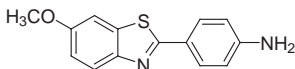
Product Number	Product	Order number / Unit
5110	6-MOMO-BTA-0 Precursor for [N-Methyl-¹¹C]-6-OH-BTA-1 $C_{15}H_{14}N_2O_2S$ Molar Mass: 286.35 [566170-03-4] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzenamine, 4-[6-(methoxymethoxy)-2-benzothiazolyl]- Synonyms: 2-(4'-Aminophenyl)-6-methoxymethoxybenzothiazole; Pittsburgh Compound B (PiB)-MOM-precursor Literature: Mathis C.A. et al. Synthesis and Evaluation of ¹¹ C-Labeled 6-Substituted 2-Arylbenzothiazoles as Amyloid Imaging Agents J. Med. Chem. 2003, 46, 2740-2754.	5110.0001: 1 mg per vial 5110.0001.5: 1.5 mg per vial 5110.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

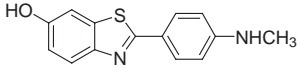


Product Number	Product	Order number / Unit
5111	6-MOMO-BTA-0 (GMP) Precursor for [N-Methyl-¹¹C]-6-OH-BTA-1 Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) $C_{15}H_{14}N_2OS$ Molar Mass: 286.35 [566170-03-4] Colourless to yellowish solid packaged in dark glass crimp cap vials. Purity: ≥ 97 % Certificates: CoA with NMR spectra (identity); HPLC (purity); GC (residual solvents, water content); Content Palladium and Copper (AAS); microbiology test Chemical Name: CA index name: Benzenamine, 4-[6-(methoxymethoxy)-2-benzothiazolyl]- Synonyms: 2-(4'-Aminophenyl)-6-methoxymethoxybenzothiazole; Pittsburgh Compound B (PiB)-MOM-precursor Literature: Same as product number 5110.	5111.0005: 5 mg per vial Please inquire for customized filling and bulk quantities.

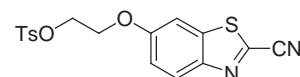


Product Number	Product	Order number / Unit
5120	6-OH-BTA-1 hydrochloride Reference standard for [N-Methyl-¹¹C]-6-OH-BTA-1 $C_{14}H_{12}N_2OS \cdot HCl$ Molar Mass: 292.78 CAS-RN not yet assigned Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 6-Benzothiazolol, 2-[4-(methylamino)phenyl] hydrochloride Synonyms: 2-[4'-(Methylamino)phenyl]-6-hydroxybenzothiazole hydrochloride; Pittsburgh Compound B (PiB) hydrochloride Literature: Mathis C.A. et al. Synthesis and Evaluation of ¹¹ C-Labeled 6-Substituted 2-Arylbenzothiazoles as Amyloid Imaging Agents J. Med. Chem. 2003, 46, 2740-2754.	5120.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

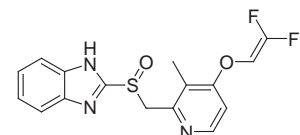
Product Number	Product	Order number / Unit
5130	6-MeO-BTA-0 Reference standard for [O-Methyl-¹¹C]6-MeO-BTA-0 $C_{14}H_{12}N_2OS$ Molar Mass: 256.32 [43036-17-5] Yellow solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzenamine, 4-(6-methoxy-2-benzothiazolyl)- Synonyms: 2-(4'-Aminophenyl)-6-methoxybenzothiazole Literature: Mathis C.A. et al. Synthesis and Evaluation of ¹¹ C-Labeled 6-Substituted 2-Arylbenzothiazoles as Amyloid Imaging Agents J. Med. Chem. 2003, 46, 2740-2754.	5130.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

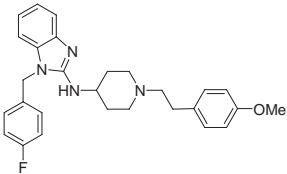
Product Number	Product	Order number / Unit
5140	<p>6-OH-BTA-1 (free base) Reference standard for [N-Methyl-¹¹C]-6-OH-BTA-1</p> <p>C₁₄H₁₂N₂OS Molar Mass: 256.32 [566169-93-5] Yellow solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 6-Benzothiazolol, 2-[4-(methylamino)phenyl]- Synonymes: 2-[4'-(Methylamino)phenyl]-6-hydroxybenzothiazole; Pittsburgh Compound B (PiB) Literature: Mathis C.A. et al. Synthesis and Evaluation of ¹¹C-Labeled 6-Substituted 2-Arylbenzothiazoles as Amyloid Imaging Agents J. Med. Chem. 2003, 46, 2740-2754.</p>	<p>5140.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

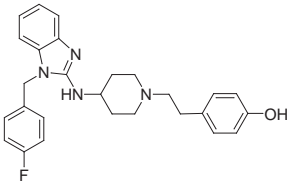
Product Number	Product	Order number / Unit
5149	6-O-Tosyloxyethyl-CBT Precursor for [¹⁸F]-labeling of N-terminal cysteine-bearing peptides and proteines $C_{17}H_{14}N_2O_4S_2$ Molar Mass: 374.44 [1392498-16-6] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 2-Benzothiazolecarbonitrile, 6-[2-[[[(4-methylphenyl)sulfonyl]oxy]ethoxy]- Synonymes: 2-(2-cyanobenzothiazol-6-yloxy) 4-methylbenzenesulfonate; TE-CBT Literature: Ren H. et al. A biocompatible condensation reaction for the labeling of terminal cysteine residues on proteins. <i>Angew. Chem. Int. Ed.</i> 2009, 48, 9658-9662. Jeon J. et al. Efficient method for site-specific 18F-labeling of biomolecules using the rapid condensation reaction between 2-cyanobenzothiazole and cysteine. <i>Bioconjugate Chem.</i> 2012, 23, 1902 - 1908. Godinat A. et al. A biocompatible in vivo ligation reaction and its application for noninvasive bioluminescent imaging of protease activity in living mice. <i>ACS Chem. Biol.</i> 2013, 8, 987-999.	5149.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.

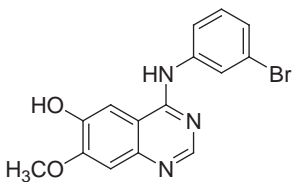


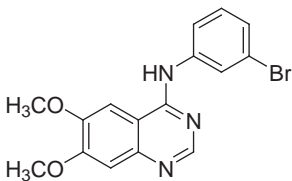
Product Number	Product	Order number / Unit
5150	[¹⁸F]Lansoprazole Precursor Precursor for [¹⁸F]Lansoprazole $C_{16}H_{13}F_2N_3O_2S$ Molar Mass: 349.36 [1613520-76-5] Off-white to brownish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 1H-Benzimidazole, 2-[[[4-[(2,2-difluoroethenyl)oxy]-3-methyl-2-pyridinyl]methyl]sulfinyl]- Synonymes: 2-(((5-((2,2-difluorovinyl)oxy)-3-methylpyridin-2-yl)methyl)sulfinyl)-1Hbenzo[d]imidazole; 2-[4-(2,2-Difluoro-vinyloxy)-3-methyl-pyridin-2-ylmethanesulfinyl]-1H-benzoimidazole; [¹⁸ F]LNS precursor Literature: Fawaz M. V. et al. High Affinity Radiopharmaceuticals Based upon Lansoprazole for PET Imaging of Aggregated Tau in Alzheimer's Disease and Progressive Supranuclear Palsy: Synthesis, Pre-clinical Evaluation and Lead Selection. <i>ACS Chem. Neurosci.</i> 2014, 5, 718-730.	5150.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

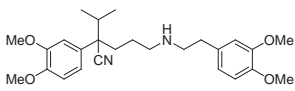


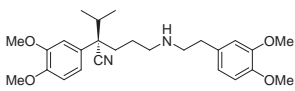
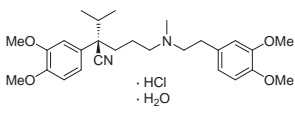
Product Number	Product	Order number / Unit
5165	Astemizole Reference standard for [¹¹C]Astemizole $C_{28}H_{31}FN_4O$ Molar Mass: 458.57 [68844-77-9] Colourless to off-white solid packaged in dark glass screw cap vials or dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H HMR spectrum Chemical Name: 1-(4-fluorophenylmethyl)-N-1-[2-(4-methoxyphenyl)ethyl]-4-piperidyl-1H-benzimidazol-2-amine Synonyms: 1-(4-Fluorobenzyl)-N-1-[2-(4-methoxyphenyl)ethyl]-4-piperidyl-1H-benzimidazol-2-ylamin; [1-(4-Fluoro-benzyl)-1H-benzoimidazol-2-yl]-1-[2-(4-methoxy-phenyl)-ethyl]-piperidin-4-yl-amine; [¹¹ C]Astemizole standard Literature: Riss P. J. et al. Radiosynthesis and characterization of astemizole derivatives as lead compounds toward PET imaging of τ -pathology. Med. Chem. Commun. 2013, 4, 852-855. Cai L. et al. Synthesis of [¹¹ C]astemizole as a lead candidate radioligand for imaging brain neurofibrillary tangles. Neuroimage 2010, 52, Supplement 1, S152-S153	Please inquire for customized filling and bulk quantities. 

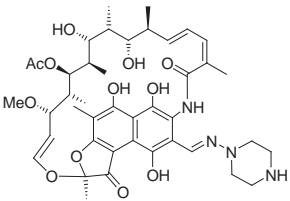
Product Number	Product	Order number / Unit
5166	O-Desmethyl Astemizole Precursor for [¹¹C]Astemizole and [¹⁸F]Fluoroethyl-astemizole $C_{27}H_{29}FN_4O$ Molar Mass: 444.54 [73736-50-2] Colourless to off-white solid packaged in dark glass screw cap vials or dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: 4-[2-[4-[[1-[(4-Fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidyl]ethyl]phenol Synonyms: O-desmethylastemizole; 4-(2-[1-(4-Fluoro-benzyl)-1H-benzoimidazol-2-ylamino]-piperidin-1-yl-ethyl)-phenol; [¹¹ C]Astemizole precursor; [¹⁸ F]Astemizole precursor Literature: Riss P. J. et al. Radiosynthesis and characterization of astemizole derivatives as lead compounds toward PET imaging of τ -pathology. Med. Chem. Commun. 2013, 4, 852-855. Cai L. et al. Synthesis of [¹¹ C]astemizole as a lead candidate radioligand for imaging brain neurofibrillary tangles. Neuroimage 2010, 52, Supplement 1, S152-S153	Please inquire for customized filling and bulk quantities. 

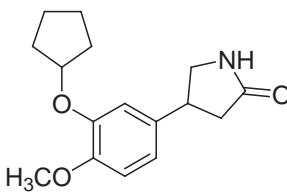
Product Number	Product	Order number / Unit
5200	<p>Desmethyl-PD 153035 Precursor for [Methoxy-¹¹C]PD 153035 Potent and specific inhibitor of the EFG receptor tyrosine kinase</p> <p>$C_{15}H_{12}BrN_3O_2$ Molar Mass: 346.18 [295330-61-9] Yellowish solid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 6-Quinazolinol, 4-[(3-bromophenyl)amino]-7-methoxy- Synonyms: 4-Quinazolinamine, N-(3-bromophenyl)-6-hydroxy-7-methoxy-; 4-(3-Bromophenylamino)-7-methoxyquinazolin-6-ol; 4-[(3-Bromophenyl)amino]-6-hydroxy-7-methoxyquinazoline Literature: Fredriksson A. et al. In vivo evaluation of the biodistribution of ¹¹C-labeled PD153035 in rats without and with neuroblastoma implants Life Sci. 1999, 65, 165-174. Johnström P. et al. Synthesis of [Methoxy-¹¹C]PD153035, a Selective EGF Receptor Tyrosine Kinase Inhibitor J. Labelled Compd. Radiopharm. 1998, 41, 623-629. Gibson K.H. et al. Epidermal growth factor receptor tyrosine kinase: Structure-activity relationships and antitumour activity of novel quinazolines Bioorg. Med. Chem. Lett. 1997, 7, 2723-2728.</p>	<p>5200.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

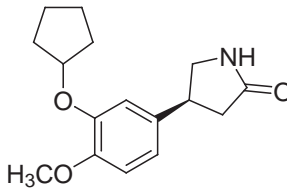
Product Number	Product	Order number / Unit
5210	<p>PD 153035 Reference standard for [Methoxy-¹¹C]PD 153035 Potent and specific inhibitor of the EFG receptor tyrosine kinase</p> <p>$C_{16}H_{14}BrN_3O_2$ Molar Mass: 360.21 [153436-54-5] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: 4-Quinazolinamine, N-(3-bromophenyl)-6,7-dimethoxy- Synonyms: 4-(3-Bromophenylamino)-6,7-bis(methoxy)quinazoline; 4-(3-Bromophenylamino)-6,7-dimethylquinazoline; AG 1517; NSC 669364; SU 5271; WHI-P 79 Literature: Fredriksson A. et al. In vivo evaluation of the biodistribution of ¹¹C-labeled PD153035 in rats without and with neuroblastoma implants Life Sci. 1999, 65, 165-174. Johnström P. et al. Synthesis of [Methoxy-¹¹C]PD153035, a Selective EGF Receptor Tyrosine Kinase Inhibitor J. Labelled Compd. Radiopharm. 1998, 41, 623-629. Gibson K.H. et al. Epidermal growth factor receptor tyrosine kinase: Structure-activity relationships and antitumour activity of novel quinazolines Bioorg. Med. Chem. Lett. 1997, 7, 2723-2728.</p>	<p>5210.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
5600	<p>Norverapamil Precursor for [¹¹C]Verapamil</p> <p>C₂₆H₃₆N₂O₄ Molar Mass: 440.58 [67018-85-3] Yellowish to brownish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: Benzeneacetonitrile, α-[3-[[2-(3,4-dimethoxyphenyl)-ethyl]amino]propyl]-3,4-dimethoxy- α-(1-methylethyl)-</p> <p>Synonyms: 5-[(3,4-dimethoxyphenethyl)amino]-2-(3,4-dimethoxyphenyl)-2-isopropylvaleronitrile; 2-(3,4-Dimethoxyphenyl)-2-isopropyl-5-(3,4-dimethoxyphenethylamino)valeronitrile; α-[3-[[2-(3,4-Dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy- α-isopropylbenzeneacetonitrile; (±)-Norverapamil</p> <p>Literature: Luurtsema G. et al. Fully automated high yield synthesis of (R)- and (S)-[¹¹C]verapamil for measuring p-glycoprotein function with positron emission tomography. J. Labelled Compd. Radiopharm. 2000, 45, 1199-1207. Wegmann T.D. et al. An improved method for the preparation of [¹¹C]verapamil. Appl. Radiat. Isot. 2002, 57, 505-507.</p>	<p>5600.0000.5: 0.5 mg per vial 5600.0001: 1 mg per vial 5600.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

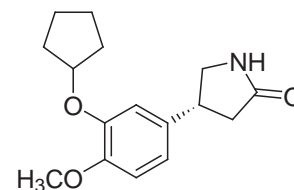
Product Number	Product	Order number / Unit
5620	<p>(-)-Norverapamil Precursor for (-)-[¹¹C]Verapamil</p> <p>C₂₆H₃₆N₂O₄ Molar Mass: 440.58 [123931-31-7] Yellowish to brownish oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹³C NMR spectra Chemical Name: CA index name: Benzeneacetonitrile, α-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy- α-(1-methylethyl)-, (αS)-</p> <p>Synonyms: (αS)-α-[3-[[2-(3,4-Dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-α-(1-methylethyl)-benzeneacetonitrile; S-Norverapamil</p> <p>Literature: Luurtsema G. et al. Fully automated high yield synthesis of (R)- and (S)-[¹¹C]verapamil for measuring p-glycoprotein function with positron emission tomography. J. Labelled Compd. Radiopharm. 2000, 45, 1199-1207. Wegmann T.D. et al. An improved method for the preparation of [¹¹C]verapamil. Appl. Radiat. Isot. 2002, 57, 505-507.</p>	<p>5620.0000.5: 0.5 mg per vial 5620.0001: 1 mg per vial 5620.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 
5630	<p>(+)-Verapamil hydrochloride Reference standard for (+)-[¹¹C]Verapamil</p> <p>C₂₇H₃₈N₂O₄ · HCl · H₂O Molar Mass: 509.08 [38176-02-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Benzeneacetonitrile, α-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-α-(1-methylethyl)-, monohydrochloride, (αR)-</p> <p>Synonyms: Benzeneacetonitrile, α-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-α-(1-methylethyl)-, monohydrochloride, (R)-; (+)-Verapamil hydrochloride; (R)-Verapamil hydrochloride; (R)-(+)-Verapamil monohydrochloride monohydrate; Dexverapamil monohydrochloride; LU 33925</p> <p>Literature: Luurtsema G. et al. Fully automated high yield synthesis of (R)- and (S)-[¹¹C]verapamil for measuring p-glycoprotein function with positron emission tomography. J. Labelled Compd. Radiopharm. 2000, 45, 1199-1207. Wegmann T.D. et al. An improved method for the preparation of [¹¹C]verapamil. Appl. Radiat. Isot. 2002, 57, 505-507.</p>	<p>5630.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
5700	<p>N-Demethylrifampicin Precursor for [¹¹C]Rifampicin</p> <p>C₄₂H₅₆N₄O₁₂ Molar Mass: 808.91 [13292-45-0] Red solid packaged in glass vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Rifamycin, 3-[(1-piperazinylimino)methyl]- Synonymes: 4-N-Demethylrifampicin; Demethylrifampicin; 2,7-(Epoxy-pentadeca[1,11,13]trienimino)naphtho[2,1-b]furan-1,11(2H)-dione, 5,6,9,17,19,21-hexahydroxy-23-methoxy-2,4,12,16,18,20,22-heptamethyl-8-(N-1-piperazinylformimidoyl)-, 21-acetate</p> <p>Literature: Liu W. et al. Radiosynthesis and Bioimaging of the Tuberculosis Chemotherapeutics Isoniazid, Rifampicin and Pyrazinamide in Baboons. J. Med. Chem. 2010, 53, 2882-289</p>	<p>5700.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

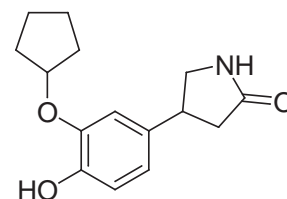
Product Number	Product	Order number / Unit
6000	Rolipram Reference standard for [¹¹C]Rolipram $C_{16}H_{21}NO_3$ Molar Mass: 275.35 [61413-54-5] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-methoxyphenyl]- Synonyms: 4-[3-(Cyclopentyloxy)-4-methoxyphenyl]-2-pyrrolidinone; (±)-Rolipram; (R,S)-Rolipram; SB 95952; ZK 62711 Literature: Kenk M. et al. In vivo selective binding of (R)-[¹¹ C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. Nucl. Med. Biol. 2007, 34, 71-77. Parker C.A. et al. Behaviour of [¹¹ C]R(-) and [¹¹ C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. Synapse 2005, 55, 270-279. Lourenco C.M. et al. Characterization of R-[¹¹ C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. Nucl. Med. Biol. 2001, 28, 347-358. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹ C]SCH23390 binding to the striatal D1 dopamine receptors, but the facilitation enhances phosphodiesterase type-IV activity through D1 receptors: PET studies in the conscious monkey brain. Synapse 2001, 42, 258-265.	6000.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
6010	(S)-(+)-Rolipram Reference standard for [¹¹C]-(S)-Rolipram $C_{16}H_{21}NO_3$ Molar Mass: 275.35 [85416-73-5] Colourless to off-white solid packaged in dark glass vials. Purity: ≥ 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-methoxyphenyl]-, (4S)- Synonyms: (4S)-4-[3-(Cyclopentyloxy)-4-methoxyphenyl]pyrrolidin-2-one Literature: Krause W. et al Anti-inflammatory Activity of Rolipram in a Rat Ear Edema Model <i>Arzneim.-Forsch./Drug. Res.</i> 1994, 44, 163-165. Pfeffer M. et al In vitro and in vivo Characterization of two Sustained Release Formulations for the Antidepressant Rolipram <i>Arzneim.-Forsch./Drug Res.</i> 1990, 40, 1191-1194.	6010.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

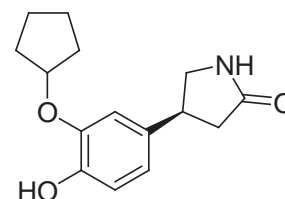
Product Number	Product	Order number / Unit
6020	(R)-(-)-Rolipram Reference standard for [¹¹C]- (R)-Rolipram $C_{16}H_{21}NO_3$ Molar Mass: 275.35 [85416-75-7] Colourless to off-white solid packaged in dark glass vials. Purity: ≥ 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-methoxyphenyl]-, (4R)- Synonyms: (4R)-4-[3-(Cyclopentoxy)-4-methoxyphenyl]pyrrolidin-2-one Literature: Krause W. et al Anti-inflammatory Activity of Rolipram in a Rat Ear Edema Model <i>Arzneim.-Forsch./Drug. Res.</i> 1994, 44, 163-165. Pfeffer M. et al In vitro and in vivo Characterization of two Sustained Release Formulations for the Antidepressant Rolipram <i>Arzneim.- Forsch./Drug Res.</i> 1990, 40, 1191-1194.	6020.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



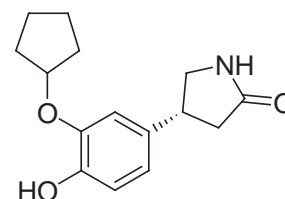
Product Number	Product	Order number / Unit
6030	Desmethyl-Rolipram Precursor for [¹¹C]Rolipram $C_{15}H_{19}NO_3$ Molar Mass: 261.32 [150519-28-1] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-hydroxyphenyl]- Synonyms: (±)-Desmethyl-Rolipram; (R,S)-Desmethyl-Rolipram Literature: Kenk M. et al. In vivo selective binding of (R)-[¹¹ C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. <i>Nucl. Med. Biol.</i> 2007, 34, 71-77. Parker C.A. et al. Behaviour of [¹¹ C]R(-) and [¹¹ C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. <i>Synapse</i> 2005, 55, 270-279. Lourenco C.M. et al. Characterization of R-[¹¹ C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. <i>Nucl. Med. Biol.</i> 2001, 28, 347-358. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹ C]SCH23390 binding to the striatal D1 dopamine receptors, but the facilitation enhances phosphodiesterase type-IV activity through D1 receptors: PET studies in the conscious monkey brain. <i>Synapse</i> 2001, 42, 258-265.	6030.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

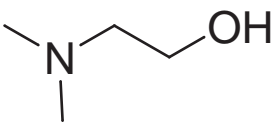
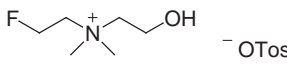


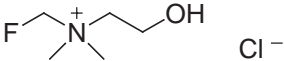
Product Number	Product	Order number / Unit
6040	(S)-(+)-Desmethyl-Rolipram Precursor for S-(+)-[¹¹C]Rolipram $C_{15}H_{19}NO_3$ Molar Mass: 261.32 [347148-60-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-hydroxyphenyl]-, (4S)- Synonyms: S-Desmethyl-Rolipram; (+)-Desmethyl-Rolipram Literature: Kenk M. et al. In vivo selective binding of (R)-[¹¹ C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. Nucl. Med. Biol. 2007, 34, 71-77. Parker C.A. et al. Behaviour of [¹¹ C]R(-) and [¹¹ C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. Synapse 2005, 55, 270-279. Lourenco C.M. et al. Characterization of R-[¹¹ C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. Nucl. Med. Biol. 2001, 28, 347-358. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹ C]SCH23390 binding to the striatal D1 dopamine receptors, but the facilitation enhances phosphodiesterase type-IV activity through D1 receptors: PET studies in the conscious monkey brain. Synapse 2001, 42, 258-265.	6040.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

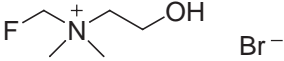


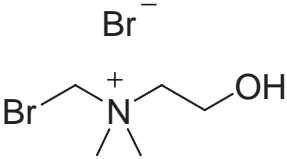
Product Number	Product	Order number / Unit
6050	(R)-(-)-Desmethyl-Rolipram Precursor for R-(-)-[¹¹C]Rolipram $C_{15}H_{19}NO_3$ Molar Mass: 261.32 [347148-59-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-hydroxyphenyl]-, (4R)- Synonyms: R-Desmethyl-Rolipram; (-)-Desmethyl-Rolipram Literature: Kenk M. et al. In vivo selective binding of (R)-[¹¹ C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. Nucl. Med. Biol. 2007, 34, 71-77. Parker C.A. et al. Behaviour of [¹¹ C]R(-) and [¹¹ C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. Synapse 2005, 55, 270-279. Lourenco C.M. et al. Characterization of R-[¹¹ C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. Nucl. Med. Biol. 2001, 28, 347-358. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹ C]SCH23390 binding to the striatal D1 dopamine receptors, but the facilitation enhances phosphodiesterase type-IV activity through D1 receptors: PET studies in the conscious monkey brain. Synapse 2001, 42, 258-265.	6050.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

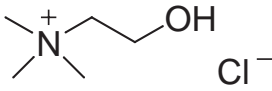


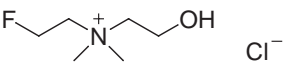
Product Number	Product	Order number / Unit
6100	<p>Dimethylaminoethanol Precursor for [¹¹C]Choline Precursor for [¹⁸F]Fluoroalkylcholine $C_4H_{11}NO$ Molar Mass: 89.14 [108-01-0] Colourless liquid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index name: Ethanol, 2-(dimethylamino)- Synonyms: 2-(Dimethylamino)ethanol; beta-(Dimethylamino)ethanol; 2-(Dimethylamino)ethyl alcohol; 2-(N,N-Dimethylamino)ethanol; Dimethyl(2-hydroxyethyl)amine; Dimethyl(hydroxyethyl)amine; Dimethylethanolamine; N,N-Dimethyl(2-hydroxyethyl)amine; N,N-Dimethyl-beta-hydroxyethylamine; N,N-Dimethylethanolamine; N,N-Dimethyl-N-(beta-hydroxyethyl)amine; Norcholine; DMEA Literature: Hara T. et al. PET imaging of prostate cancer using carbon-11-choline. J. Nucl. Med. 1998, 39, 990-995. Hara T. et al. PET imaging of brain tumor with [methyl-¹¹C]choline. J. Nucl. Med. 1997, 38, 842-847. Hara T. et al. Automated synthesis of [¹¹C]choline, a positronemitting tracer for tumor imaging. Appl. Radiat. Isot. 1999, 50, 531-533. Hara T. et al. Development of ¹⁸F-fluoroethylcholine for cancer imaging with PET: synthesis, biochemistry, and prostate cancer imaging J. Nucl. Med. 2002, 43, 187-199. DeGrado T.R. et al. Synthesis and Evaluation of ¹⁸F-Labeled Choline Analogs as Oncologic PET Tracers J. Nucl. Med. 2001, 42, 1805-1814.</p>	<p>6100.0000.1: 0.1 ml (89 mg) per vial Please inquire for customized filling and bulk quantities.</p> 
6120	<p>Fluoroethylcholine tosylate Reference standard for [¹⁸F]Fluoroethylcholine $C_6H_{15}FNO \cdot C_7H_7O_3S$ Molar Mass: 307.38 [479407-07-3] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Ethanaminium, N-(2-fluoroethyl)-2-hydroxy-N,N-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) Synonyms: FECh Tosylate Literature: Hara T. et al. Development of ¹⁸F-fluoroethylcholine for cancer imaging with PET: synthesis, biochemistry, and prostate cancer imaging J. Nucl. Med. 2002, 43, 187-199. DeGrado T.R. et al. Synthesis and Evaluation of ¹⁸F-Labeled Choline Analogs as Oncologic PET Tracers J. Nucl. Med. 2001, 42, 1805-1814.</p>	<p>6120.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

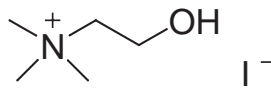
Product Number	Product	Order number / Unit
6130	Fluoromethylcholine chloride Reference standard for [¹⁸F]Fluoromethylcholine	6130.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.
	<p>Caution, very sensitive to moisture and hygroscopic!</p> <p>C₅H₁₃ClFNO Molar Mass: 157.61</p> <p>[459424-38-5]</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 90 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: Ethanaminium, N-(fluoromethyl)-2-hydroxy-N,N-dimethyl-, chloride</p> <p>Synonymes: Fluorocholine Chloride; FCh Chloride</p> <p>Literature: DeGrado T.R. et al. Synthesis and evaluation of ¹⁸F-labeled choline as an oncologic tracer for positron emission tomography: initial findings in prostate cancer. Cancer Res. 2001, 61, 110-7.</p> <p>Iwata R. et al. [¹⁸F]Fluoromethyl triflate, a novel and reactive [¹⁸F]Fluoromethylating agent: Preparation and application to the on-column preparation of [¹⁸F]Fluorocholine. Appl. Radiat. Isotop. 2002, 57, 347-352.</p>	

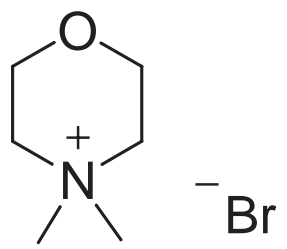
Product Number	Product	Order number / Unit
6140	Fluoromethylcholine bromide Reference standard for [¹⁸F]Fluoromethylcholine	6140.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.
	<p>Caution, very sensitive to moisture and hygroscopic!</p> <p>C₅H₁₃BrFNO Molar Mass: 202.07</p> <p>CAS-RN not yet assigned</p> <p>Colourless crystals packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra</p> <p>Chemical Name: Ethanaminium, N-(fluoromethyl)-2-hydroxy-N,N-dimethyl-, bromide</p> <p>Synonymes: Fluorocholine Bromide; FCh Bromide</p> <p>Literature: DeGrado T.R. et al. Synthesis and evaluation of ¹⁸F-labeled choline as an oncologic tracer for positron emission tomography: initial findings in prostate cancer. Cancer Res. 2001, 61, 110-7.</p> <p>DeGrado T.R. et al. Synthesis and Evaluation of ¹⁸F-Labeled Choline Analogs as Oncologic PET Tracers J. Nucl. Med. 2001, 42, 1805-1814.</p> <p>Iwata R. et al. [¹⁸F]Fluoromethyl triflate, a novel and reactive [¹⁸F]Fluoromethylating agent: Preparation and application to the on-column preparation of [¹⁸F]Fluorocholine. Appl. Radiat. Isotop. 2002, 57, 347-352.</p>	

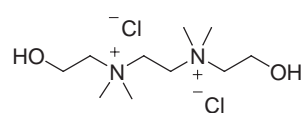
Product Number	Product	Order number / Unit
6141	Bromocholine bromide Reference standard for byproduct of [¹⁸F]Fluoromethylcholine synthesis Caution, very sensitive to moisture and hygroscopic! $C_5H_{13}Br_2NO$ Molar Mass: 262.97 [28508-20-5] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: (bromomethyl)(2-hydroxyethyl)dimethylammonium bromide Synonyms: N,N-Dimethyl-N-(bromomethyl)ethan-2-ol ammonium bromide; N-(Bromomethyl)-2-hydroxy-N,N-dimethylethanaminium bromide; Bromomethylcholine bromide Literature:	6141.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
6150	Choline chloride Reference standard for [¹¹C]Choline Caution, sensitive to light and moisture (hygroscopic)! $C_5H_{14}ClNO$ Molar Mass: 139.62 [67-48-1] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Ammonium, (2-hydroxyethyl)trimethyl-, chloride Synonyms: Choline chlorohydrate; (2-Hydroxyethyl)trimethylammonium chloride Literature: Hara T. et al. PET imaging of prostate cancer using carbon-11-choline. J. Nucl. Med. 1998, 39, 990-995. Hara T. et al. PET imaging of brain tumor with [methyl- ¹¹ C]choline. J. Nucl. Med. 1997, 38, 842-847. Hara T. et al. Automated synthesis of [¹¹ C]choline, a positronemitting tracer for tumor imaging. Appl. Radiat. Isot. 1999, 50, 531-533.	6150.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

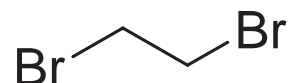
Product Number	Product	Order number / Unit
6160	<p>Fluoroethylcholine chloride Reference standard for [¹⁸F]Fluoroethylcholine</p> <p>C₆H₁₅ClFNO Molar Mass: 171.64 [479407-08-4] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index name: Ethanaminium, N-(2-fluoroethyl)-2-hydroxy-N,N-dimethyl-, chloride Synonymes: FECh chloride; FEtCh chloride Literature: Hara T. et al. Development of ¹⁸F-fluoroethylcholine for cancer imaging with PET: synthesis, biochemistry, and prostate cancer imaging J. Nucl. Med. 2002, 43, 187-199. DeGrado T.R. et al. Synthesis and Evaluation of ¹⁸F-Labeled Choline Analogs as Oncologic PET Tracers J. Nucl. Med. 2001, 42, 1805-1814.</p>	<p>6160.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
6170	<p>Choline iodide Reference standard for [¹¹C]Choline</p> <p>Caution, sensitive to light and moisture (hygroscopic)!</p> <p>C₅H₁₄INO Molar Mass: 231.08 [17773-10-3]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Ammonium, (2-hydroxyethyl)trimethyl-, iodide</p> <p>Synonymes: Choline iodohydrate; Choline hydriodide</p> <p>Literature: Hara T. et al. PET imaging of prostate cancer using carbon-11-choline. J. Nucl. Med. 1998, 39, 990-995. Hara T. et al. PET imaging of brain tumor with [methyl-¹¹C]choline. J. Nucl. Med. 1997, 38, 842-847. Hara T. et al. Automated synthesis of [¹¹C]choline, a positronemitting tracer for tumor imaging. Appl. Radiat. Isot. 1999, 50, 531-533.</p>	<p>6170.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

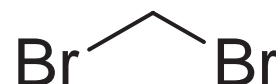
Product Number	Product	Order number / Unit
6173	DMMB Reference standard for byproduct of [¹⁸F]Fluoroethylcholine synthesis $C_6H_{14}BrNO$ Molar Mass: 196.09 [40968-70-5] Yellowish solid packaged in dark glass screw cap vials. Purity: > 95% Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: Morpholinium, 4,4-dimethyl-, bromide (1:1); 4,4-Dimethylmorpholinium bromide; Morpholinium, 4,4-dimethyl-, bromide Synonyms: N,N'-Dimethylmorpholinium bromide Literature: keine Literatur zur Anwendung bekannt, wird also nicht angegeben. Zur Synthese siehe: Faust, G. Journal fuer Praktische Chemie (Leipzig) 1963 V21(3-4) P113-30	61.730.100 Please inquire for customized filling and bulk quantities. 

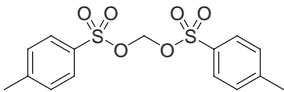
Product Number	Product	Order number / Unit
6174	BHTMEDA Reference standard for byproduct of [¹⁸F]Fluoroethylcholine synthesis $C_{10}H_{26}Cl_2N_2O_2$ Molar Mass: 277.23 [60168-37-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95% Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: 1,2-Ethanediaminium, N1,N2-bis(2-hydroxyethyl)-N1,N1,N2,N2-tetramethyl-, chloride (1:2); 1,2-Ethanediaminium, N,N'-bis(2-hydroxyethyl)-N,N,N',N'-tetramethyl-, dichloride Synonyms: N,N'-Bis-(2-hydroxyethyl)-N,N,N',N'-tetramethylethandiammonium dichlorid Literature: no literature reference available	61.740.100 Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
6175	Dibromoethane $\text{C}_2\text{H}_4\text{Br}_2$ Molar Mass: 187.86 [106-93-4] Colourless liquid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Ethane, 1,2-dibromo- Synonymes: α,β -Dibromoethane; α,ω -Dibromoethane; 1,2-Dibromoethane; Ethylene bromide; Ethylene dibromide; Glycol dibromide; sym-Dibromoethane Literature: no literature reference available	6175.0000.5: 0.5 ml per vial Please inquire for customized filling and bulk quantities.

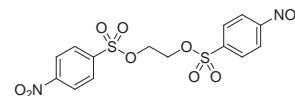


Product Number	Product	Order number / Unit
6176	Dibromomethane CH_2Br_2 Molar Mass: 173.83 [74-95-3] Colourless liquid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Methane, dibromo- Synonymes: Methylene bromide; Methylene dibromide Literature: no literature reference available	6176.0000.5: 0.5 ml per vial Please inquire for customized filling and bulk quantities.

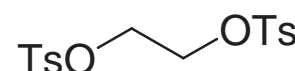


Product Number	Product	Order number / Unit
6177	<p>Bis(tosyloxy)methane Precursor for 1-[¹⁸F]Fluoromethyl tosylate</p> <p>C₁₅H₁₆O₆S₂ Molar Mass: 356.42 [24124-59-2] White solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: Methanediol, 1,1-bis(4-methylbenzenesulfonate); Methanediol, bis(4-methylbenzenesulfonate), Methanediol, di-p-toluenesulfonate Synonymes: Bis(tosyloxy)methane; Methylene bis(toluene-4-sulfonate); 1-methyl-4-[(4-methylphenyl)sulfonyloxymethoxysulfonyl]benzene; Methylene bis-tosylate Literature: Neal T.R. et al. Improved synthesis of [¹⁸F]fluoromethyl tosylate, a convenient reagent for radiofluoromethylations. J. Label. Compd. Radiopharm. 2005, 48, 557-568.</p>	<p>6177.0010: 10 mg per vial 6177.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

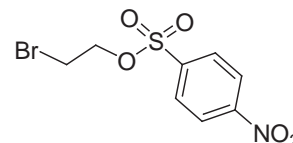
Product Number	Product	Order number / Unit
6179	1,2-Bis(nosyloxy)ethane Precursor for 1-[¹⁸F]Fluoro-2-nosyloxy-ethane $C_{14}H_{12}N_2O_{10}S_2$ Molar Mass: 432.38 [25297-82-9] Colourless to yellow crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzenesulfonic acid, 4-nitro-, 1,2-ethanediyl ester Synonyms: Benzenesulfonic acid, p-nitro-, ethylene ester; Ethylene glycol, bis(p-nitrobenzenesulfonate); Ethylene dinosylate; Ethylene glycol dinosylate; 1,2-Ethylene dinosylate; 1,2-Bis(nosyloxy)ethane; 1,2-Bis(4-nitrobenzenesulfonyloxy)ethane; 1,2-Bis(p-nitrobenzenesulfonyloxy)ethane; 1,2-Ethanediol dinosylate; Di-O-nosylglycol Literature: Musachio J.L. et al. Radiosyntheses and reactivities of novel [¹⁸ F]2-fluoroethyl arylsulfonates. J. Labelled Compd. Radiopharm. 2005, 48, 735-747.	6179.0100: 100 mg per vial 6179.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



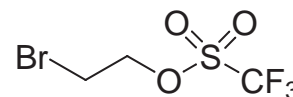
Product Number	Product	Order number / Unit
6180	1,2-Bis(tosyloxy)ethane Precursor for [¹⁸F]Fluoroethylcholine $C_{16}H_{18}O_6S_2$ Molar Mass: 370.44 [6315-52-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: 1,2-Ethanediol; 1,2-bis(4-methylbenzenesulfonate); 1,2-Ethanediol; 1,2-bis(4-methylbenzenesulfonate) Synonyms: Ethylene ditosylate; Ethylene glycol ditosylate; 1,2-Bis(tosyloxy)ethane; 1,2-Bis(4-methylbenzenesulfonyloxy)ethane; 1,2-Bis(p-toluenesulfonyloxy)ethane; 1,2-Bis(p-tolylsulfonyloxy)ethane; 1,2-Bistosyloxy ethane; 1,2-Di(tosyloxy)ethane; 1,2-Ethanediol ditosylate; 1,2-Ethylene ditosylate; Di-O-tosylglycol; Ethylene 1,2-bis(tosylate); Ethylene di-p-toluenesulfonate; Ethylene glycol bis(p-toluenesulfonate); Ethylene glycol di-p-tosylate; Ethylene glycol ditoluenesulfonate; Ethylene glycol ditosylate Literature: Hara T. et al. Development of ¹⁸ F-fluoroethylcholine for cancer imaging with PET: synthesis, biochemistry, and prostate cancer imaging J. Nucl. Med. 2002, 43, 187-199.	6180.0100: 100 mg per vial 6180.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



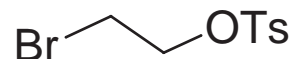
Product Number	Product	Order number / Unit
6181	2-Bromoethyl nosylate Precursor for [¹⁸F]BFE (1-Bromo-2-[¹⁸F]fluoroethane) $C_8H_8BrNO_5S$ Molar Mass: 310.12 [52331-22-3] Colourless to yellowish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Bromoethyl p-nitrobenzenesulfonate; Benzenesulfonic acid, 4-nitro-, 2-bromoethyl ester Synonyms: n/a Literature: Kumar P. et al. ¹⁸ F-FESB: synthesis and automated radiofluorination of a novel ¹⁸ F-labeled pet tracer for beta-amyloid plaques J. Labelled Compd. Radiopharm. 2005, 482, 983-996.	6181.0100: 100 mg per vial 6181.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



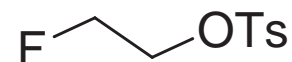
Product Number	Product	Order number / Unit
6182	2-Bromoethyl triflate Precursor for [¹⁸F]BFE (1-Bromo-2-[¹⁸F]fluoroethane) $C_3H_4BrF_3O_3S$ Molar Mass: 257.03 [103935-47-3] Colourless liquid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Methanesulfonic acid, 1,1,1-trifluoro-, 2-bromoethyl ester; Methanesulfonic acid, trifluoro-, 2-bromoethyl ester Synonyms: Trifluoromethanesulfonic acid 2-bromoethyl ester Literature: Wang J.-Q. et al. Synthesis and preliminary biological evaluation of O6-[4-(2-[¹⁸ F]fluoroethoxymethyl)benzyl]guanine as a novel potential PET probe for the DNA repair protein O 6-alkylguanine-DNA alkyltransferase in cancer chemotherapy. Bioorg. Med. Chem. 2005, 13, 5779-5786. Lin K.-S. et al. Synthesis, enantiomeric resolution, F-18 labeling and biodistribution of reboxetine analogs: promising radioligands for imaging the norepinephrine transporter with positron emission tomography. Nucl. Med. Biol. 2005, 32, 415-422. Chi D. Y. et al. A rapid and efficient method for the fluoroalkylation of amines and amides. Development of a method suitable for incorporation of the shortlived positron emitting radionuclide fluorine-18. J. Org. Chem. 1987, 52, 658- 664.	6182.0100: 100 mg per vial 6182.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



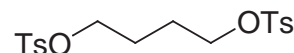
Product Number	Product	Order number / Unit
6183	2-Bromoethyl tosylate Precursor for [¹⁸F]BFE (1-Bromo-2-[¹⁸F]fluoroethane) $C_9H_{11}BrO_3S$ Molar Mass: 279.15 [19263-21-9] Colourless to yellowish liquid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Ethanol, 2-bromo-, 1-(4-methylbenzenesulfonate) Synonyms: Toluene-4-sulfonic acid 2-bromo-ethyl ester; 2-Bromoethyl p-toluenesulfonate Literature: Krasikova R.N. et al. Use of 2-[¹⁸ F]Fluoroethyl Bromide in Synthesis of O-(2-[¹⁸ F]Fluoroethyl)-L-tyrosine, a Radiotracer for PET Diagnostics of Brain Tumors. Radiochem. 2007, 49, 299-304.	6183.0100: 100 mg per vial 6183.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



Product Number	Product	Order number / Unit
6184	2-Fluoroethyl tosylate Reference standard for 2-[¹⁸F]Fluoroethyl tosylate $C_9H_{11}FO_3S$ Molar Mass: 218.25 [383-50-6] Colourless to pink liquid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Ethanol, 2-fluoro-, 1-(4-methylbenzenesulfonate) Synonyms: Ethanol, 2-fluoro-, 4-methylbenzenesulfonate; Ethanol, 2-fluoro-, p-toluenesulfonate; 1-Fluoro-2-(tosyloxy)ethane; 2-Fluoroethyl 4-methylbenzenesulfonate; 2-Fluoroethyl 4-toluenesulfonate; 2-Fluoroethyl p-toluenesulfonate; 4-Methylbenzenesulfonic acid 2-fluoroethyl ester; Fluoro(tosyloxy)ethane; p-Toluenesulfonic acid 2-fluoroethyl ester; Toluene-4-sulfonic acid 2-fluoroethyl ester; 2-Fluoro-1-tosyloxy-ethane Literature: Musachio J.L. et al. Radiosyntheses and reactivities of novel [¹⁸ F]2-fluoroethyl arylsulfonates. J. Labelled Compd. Radiopharm. 2005, 48, 735-747.	6184.0100: 100 mg per vial 6184.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



Product Number	Product	Order number / Unit
6185	Bis(tosyl)-1,4-butanediol Precursor for 1-[¹⁸F]Fluoro-4-tosyloxy-butane $C_{18}H_{22}O_6S_2$ Molar Mass: 398.50 [4724-56-5] Off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: 1,4-Butanediol, bis(4-methylbenzenesulfonate) Synonyms: Butan-1,4-diol bis(4-methylbenzenesulfonate); 1,8-bis(toluene-4-sulfonyloxy)-butane; Butane-1,4-diol di-p-toluenesulfonate; 1,4-bis(toluene-4-sulfonyloxy)butane; 1,4-bis(p-toluenesulfonyloxy)butane; Butane-1,4-diyl ditosylate Literature: no literature reference available	6185.0100: 100 mg per vial 6185.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



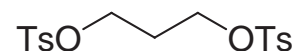
Product Number	Product	Order number / Unit
6186	1,4-Bis(tosyloxy)but-2-yne Precursor for 1-[¹⁸F]Fluoro-4-tosyloxy-but-2-yne $C_{18}H_{18}O_6S_2$ Molar Mass: 394.46 [6337-59-3] Brown solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Butyne-1,4-diol, 1,4-bis(4-methylbenzenesulfonate); 2-Butyne-1,4-diol, bis(4-methylbenzenesulfonate); p-Toluenesulfonic acid, 2-butynylene ester Synonyms: 1,4-Bis(4-methylphenylsulphonyloxy)but-2-yne; 2-Butyne-1,4-diol ditosylate; 1,4-Butyne diol ditosylate; 1,4-Butynediol ditosylate; 1,4-Di-p-tosyl-2-butyne Literature: no literature reference available	6186.0100: 100 mg per vial 6186.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



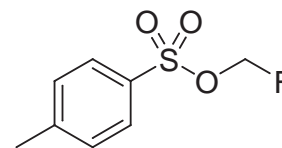
Product Number	Product	Order number / Unit
6190	3-Fluoropropyltosylate Reference standard for 3-[¹⁸F]Fluoropropyltosylate $C_{10}H_{13}FO_3S$ Molar Mass: 232.27 [312-68-5] Colourless liquid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: 1-Propanol, 3-fluoro-, 1-(4-methylbenzenesulfonate); 1-Propanol, 3-fluoro-, 4-methylbenzenesulfonate; 1-Propanol, 3-fluoro-, p-toluenesulfonate Synonymes: 1-Fluoro-3-tosyloxypropane; 3-Fluoropropyl 4-toluenesulfonate; Toluene-4-sulfonic acid 3-fluoropropyl ester Literature: Koivula T. et al. Simplified synthesis of N-(3-[¹⁸ F]fluoropropyl)-2β-carbomethoxy-3β-(4-fluorophenyl)nortropane ([¹⁸ F]β-CFT-FP) using [¹⁸ F]fluoropropyl tosylate as the labelling reagent. J. Labelled Compd. Radiopharm. 2005, 48- 463-471.	6190.0100: 100 mg per vial 6190.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



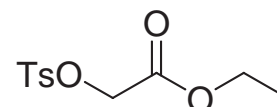
Product Number	Product	Order number / Unit
6191	1,3-Propane-di-tosylate Precursor for 1-[¹⁸F]Fluoro-3-tosyloxy-propane $C_{17}H_{20}O_6S_2$ Molar Mass: 384.47 [5469-66-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1,3-Propanediol, 1,3-bis(4-methylbenzenesulfonate) Synonymes: 1,3-Propanediol, bis(4-methylbenzenesulfonate); 1,3-Propanediol, di-p-toluenesulfonate; 1,3-(Di-p-tosyl)propane; 1,3-Bis(4-toluenesulfonyloxy)propane; 1,3-Bis(toluenesulfonyloxy)propane; 1,3-Bis(tosyloxy)propane; 1,3-Di(tosyloxy)propane; 1,3-Propanediol di-p-tosylate; 1,3-Propanediol ditosylate; 1,3-Propanediyl di-p-toluenesulfonate; Propane-1,3-diyl di-p-tosylate; Propylene glycol 1,3-ditosylate; Trimethylenebis(p-toluenesulfonate) Literature: Halldin C. et al. Preparation of [¹⁸ F]β-CFT-FP and [¹¹ C]β-CFT-FP, selective radioligands for visualisation of the dopamine transporter using positron emission tomography (PET). J. Labelled Compd. Radiopharm. 2000, 43, 1235-1244.	6191.0100: 100 mg per vial 6191.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



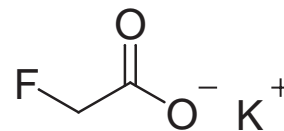
Product Number	Product	Order number / Unit
6194	Fluoromethyl tosylate Reference standard for 1-[¹⁸F]Fluoromethyl tosylate $C_8H_9FO_3S$ Molar Mass: 204.22 [114435-86-8] Colourless to brownish liquid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: fluoromethyl 4-methylbenzenesulphonate Synonymes: fluoromethyl 4-methylbenzenesulfonate; fluoromethyl tosylate; fluoromethyltosylate; toluene-4-sulfonic acid fluoromethyl ester; fluoromethyl toluene-4-sulfonate Literature: Neal T.R. et al. Improved synthesis of [¹⁸ F]fluoromethyl tosylate, a convenient reagent for radiofluoromethylations. J. Label. Compd. Radiopharm. 2005, 48, 557-568. Iwata R. et al. Radiosynthesis of O-[¹¹ C]methyl-L-tyrosine and O-[¹⁸ F]Fluoromethyl-L-tyrosine as potential PET tracers for imaging amino acid transport. J. Labelled Compd. Radiopharm. 2003, 46, 555-566.	6194.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



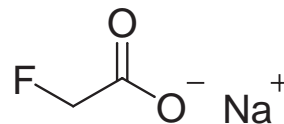
Product Number	Product	Order number / Unit
6200	Ethyl (p-tosyloxy)acetate Precursor for [¹⁸F]Fluoroacetate $C_{11}H_{14}O_5S$ Molar Mass: 258.29 [39794-75-7] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Acetic acid, [[(4-methylphenyl)-sulfonyl]oxy]-, ethyl ester Synonymes: Tosylethylglycolate Literature: Fujibayashi Y. et al. New approach to fully automated synthesis of sodium [¹⁸ F]fluoroacetate - a simple and fast method using a commercial synthesizer. Nucl. Med. Biol. 2006, 33, 153-158. Jeong J.M. et al. Synthesis of no-carrier-added [¹⁸ F]fluoroacetate. J. Labelled Compd. Radiopharm. 1997, 39, 395-399.	6200.0010: 10 mg per vial 6200.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

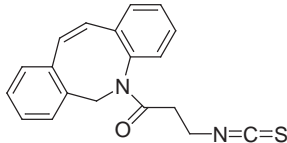


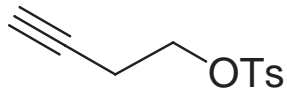
Product Number	Product	Order number / Unit
6210	Potassium fluoroacetate Reference standard for [¹⁸F]Fluoroacetate $C_2H_2F_KO_2$ Molar Mass: 116.13 [23745-86-0] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Acetic acid, fluoro-, potassium salt Synonyms: Acetic acid, fluoro-, potassium salt Literature: Fujibayashi Y. et al. New approach to fully automated synthesis of sodium [¹⁸ F]fluoroacetate - a simple and fast method using a commercial synthesizer. Nucl. Med. Biol. 2006, 33, 153-158. Jeong J.M. et al. Synthesis of no-carrier-added [¹⁸ F]fluoroacetate. J. Labelled Compd. Radiopharm. 1997, 39, 395-399.	6210.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

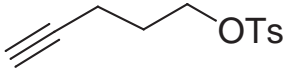


Product Number	Product	Order number / Unit
6211	Sodium fluoroacetate Reference standard for [¹⁸F]Fluoroacetate $C_2H_2FNaO_2$ Molar Mass: 100.03 [62-74-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H, ¹³ C and ¹⁹ F NMR spectra Chemical Name: CA index name: Acetic acid, fluoro-, sodium salt Synonyms: Sodium monofluoroacetate Literature: Fujibayashi Y. et al. New approach to fully automated synthesis of sodium [¹⁸ F]fluoroacetate - a simple and fast method using a commercial synthesizer. Nucl. Med. Biol. 2006, 33, 153-158. Jeong J.M. et al. Synthesis of no-carrier-added [¹⁸ F]fluoroacetate. J. Labelled Compd. Radiopharm. 1997, 39, 395-399.	6211.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

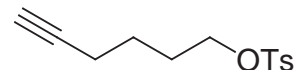


Product Number	Product	Order number / Unit
6221	DBCO-SCN Reagent for Copper-free Click Reaction Dibenzylcyclooctyne-isothiocyanate $C_{19}H_{14}N_2OS$ Molar Mass: 318.39 CAS-RN not yet assigned Brownish sticky solid Purity: > 90% Certificates: CoA; MS and 1H NMR Chemical Name: N-(3-Isothiocyanato-propionyl)-5,6-dihydro-11,12-didehydrodibenzo[b,f]azocine Synonymes: Dibenzylcyclooctyne-isothiocyanate Literature: no literature reference available	Please inquire for customized filling and bulk quantities. 

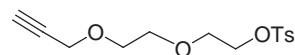
Product Number	Product	Order number / Unit
6301	1-Tosyloxy-3-butyne Precursor for 1-$[^{18}F]$Fluoro-3-butyne $C_{11}H_{12}O_3S$ Molar Mass: 224.28 [23418-85-1] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 3-Butyn-1-ol, 1-(4-methylbenzenesulfonate); 3-Butyn-1-ol, 4-methylbenzenesulfonate; 3-Butyn-1-ol, p-toluenesulfonate Synonymes: 3-Butyn-1-ol tosylate; 3-Butyn-1-yl p-toluenesulfonate; 3-Butyn-1-yl p-tosylate; 3-Butyn-1-yl tosylate; 3-Butynyl 4-methylbenzenesulfonate; 3-Butynyl p-toluenesulfonate; 3-Butynyl tosylate; 4-(Tosyloxy)-1-butyne; 4-Methylbenzenesulfonic acid 3-butyne ester; 4-p-Tolylsulfonyloxy-1-butyne; Toluene-4-sulfonic acid but-3-ynyl ester; Toluene-4-sulfonic acid but-3-ynyl ester Literature: Marik et al. Click for PET: rapid preparation of $[^{18}F]$ fluoropeptides using CuI catalyzed 1,3-dipolar cycloaddition. Tetrahedron Lett. 2006, 47, 6681-6684.	6301.0010: 10 mg per vial 6301.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

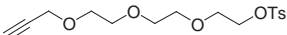
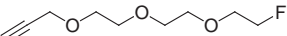
Product Number	Product	Order number / Unit
6302	1-Tosyloxy-4-pentyne Precursor for 1-[¹⁸F]Fluoro-4-pentyne $C_{12}H_{14}O_3S$ Molar Mass: 238.30 [77758-50-0] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: 4-Pentyn-1-ol, 1-(4-methylbenzenesulfonate); 4-Pentyn-1-ol, 4-methylbenzenesulfonate Synonymes: 4-Pentyn-1-ol tosylate; 4-Pentynyl p-toluenesulfonate; 4-Pentynyl tosylate; 5-(p-Toluenesulfonyloxy)pent-1-yne; 5-(Tosyloxy)-1-pentyne; Pent-4-ynyl p-tosylate; Toluene-4-sulfonic acid pent-4-ynyl ester Literature: Marik et al. Click for PET: rapid preparation of [¹⁸ F]fluoropeptides using CuI catalyzed 1,3-dipolar cycloaddition. Tetrahedron Lett. 2006, 47, 6681-6684. Hausner S.H. et al. In Vivo Positron Emission Tomography (PET) Imaging with an α,β^6 Specific Peptide Radiolabeled using ¹⁸ F-Click Chemistry: Evaluation and Comparison with the Corresponding 4-[¹⁸ F]Fluorobenzoyl- and 2-[¹⁸ F]Fluoropropionyl-Peptides. J. Med. Chem. 2008, 5901-5904.	6302.0010: 10 mg per vial 6302.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

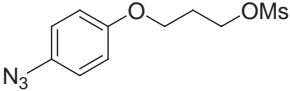
Product Number	Product	Order number / Unit
6303	1-Tosyloxy-5-hexyne Precursor for 1-[¹⁸F]Fluoro-5-hexyne $C_{13}H_{16}O_3S$ Molar Mass: 252.33 [76911-01-8] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index names: 5-Hexyn-1-ol, 1-(4-methylbenzenesulfonate); 5-Hexyn-1-ol, 4-methylbenzenesulfonate Synonymes: 5-Hexyn-1-yl p-toluenesulfonate; 5-Hexyn-1-yl tosylate; 5-Hexynyl 4-methylbenzenesulfonate; 5-Hexynyl tosylate; p-Toluenesulfonic acid 5-hexynyl ester; Toluene-4-sulfonic acid hex-5-ynyl ester Literature: Marik et al. Click for PET: rapid preparation of [¹⁸ F]fluoropeptides using CuI catalyzed 1,3-dipolar cycloaddition. Tetrahedron Lett. 2006, 47, 6681-6684.	6303.0010: 10 mg per vial 6303.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

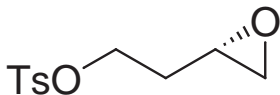


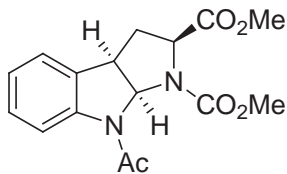
Product Number	Product	Order number / Unit
6305	Tosyl-propargyl-diethylene glycol Precursor for [¹⁸F]Fluoro-propargyl-diethylene glycol $C_{14}H_{18}O_5S$ Molar Mass: 298.36 [1119249-30-7] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Ethanol, 2-[2-(2-propyn-1-yloxy)ethoxy]-, 1-(4-methylbenzenesulfonate) Synonymes: TPDG; Toluene-4-sulfonic acid 2-(2-prop-2-ynyloxy-ethoxy)-ethyl ester Literature: Sirion U. et al. An efficient F-18 labeling method for PET study: Huisgen 1,3-dipolar cycloaddition of bioactive substances and F-18-labeled compounds. Tetrahedron Lett. 2007, 48, 3953-3957. Li et al. Click Chemistry for ¹⁸ F-Labeling of RGD Peptides and microPET Imaging of Tumor Integrin $\alpha_v\beta_3$ Expression. Bioconjugate Chem. 2007, 18, 1987-1994.	6305.0010: 10 mg per vial 6305.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

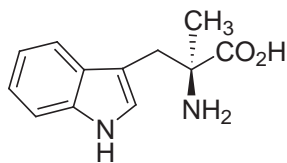


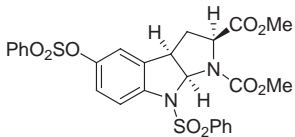
Product Number	Product	Order number / Unit
6307	<p>Tosyl-propargyl-triethylene glycol Precursor for [¹⁸F]Fluoro-propargyl-triethylene glycol</p> <p>C₁₆H₂₂O₆S Molar Mass: 342.41 [888009-94-7] Colourless to yellowish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H NMR spectrum Chemical Name: CA index names: Ethanol, 2-[2-[2-(2-propyn-1-yloxy)ethoxy]ethoxy]-, 1-(4-methylbenzenesulfonate); Ethanol, 2-[2-[2-(2-propynyloxy)ethoxy]ethoxy]-, 4-methylbenzenesulfonate Synonyms: TPTG; Toluene-4-sulfonic acid 2-[2-(2-prop-2-ynyloxy-ethoxy)-ethoxy]-ethyl ester Literature: Sirion U. et al. An efficient F-18 labeling method for PET study: Huisgen 1,3-dipolar cycloaddition of bioactive substances and F-18-labeled compounds. <i>Tetrahedron Lett.</i> 2007, 48, 3953-3957. Li et al. Click Chemistry for ¹⁸F-Labeling of RGD Peptides and microPET Imaging of Tumor Integrin α_vβ₃ Expression. <i>Bioconjugate Chem.</i> 2007, 18, 1987-1994.</p>	<p>6307.0010: 10 mg per vial 6307.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 
6308	<p>Fluoro-propargyl-triethylene glycol Reference standard for [¹⁸F]Fluoro-propargyl-triethylene glycol</p> <p>C₉H₁₅FO₃ Molar Mass: 190.21 [1003005-81-9] ([¹⁸F]Fluoro-propargyl-triethylene glycol) Brownish oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: 1-Propyne, 3-[2-[2-(2-fluoroethoxy)ethoxy]ethoxy]- Synonyms: FPTG, 3-2-[2-(2-Fluoro-ethoxy)-ethoxy]-ethoxy-propyne Literature: Li Z.-B. et al. Click Chemistry for ¹⁸F-Labeling of RGD Peptides and microPET Imaging of Tumor Integrin α_vβ₃ Expression. <i>Bioconjugate Chem.</i> 2007, 18, 1987-1994.</p>	<p>6308.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

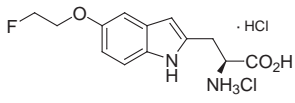
Product Number	Product	Order number / Unit
6320	3-(4-Azidophenoxy)propyl methansulfonate Precursor for 1-Azido-4-(3-[¹⁸F]fluoro-propoxy)-benzene $C_{10}H_{13}N_3O_4S$ Molar Mass: 271.29 [943726-04-3] Colourless to brownish solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 1-Propanol, 3-(4-azidophenoxy)-, 1-methanesulfonate Synonymes: Methanesulfonic acid 3-(4-azido-phenoxy)-propyl ester Literature: Sirion U. et al. An efficient F-18 labeling method for PET study: Huisgen 1,3-dipolar cycloaddition of bioactive substances and F-18-labeled compounds. Tetrahedron Lett. 2007, 48, 3953-3957.	6320.0010: 10 mg per vial 6320.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

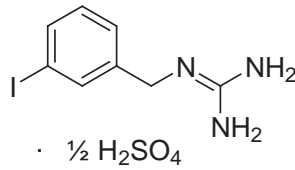
Product Number	Product	Order number / Unit
6351	(S)-O-Tosyl-1,2-Epoxybutanol $C_{11}H_{14}O_4S$ Molar Mass: 242.29 [91111-12-5] Colourless to yellowish solid or semisolid Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: (2S)-2-(4-methylbenzenesulfonate)-2-oxiraneethanol, Synonyms: Oxiraneethanol, 4-methylbenzenesulfonate, (2S)- (9CI); Oxiraneethanol, 4-methylbenzenesulfonate, (S)- Literature: Boekman Jr. R.K. et al. The Development of a Convergent and Efficient Enantioselective Synthesis of the Bengamides via a Common Polyol Intermediate. Helvetica Chimica Acta 2002, 85, 4532.	Please inquire for customized filling and bulk quantities. 

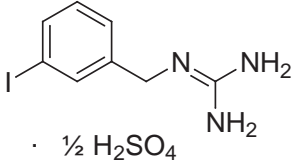
Product Number	Product	Order number / Unit
6500	Dimethyl-8-acetyl-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate Precursor for α-[^{11}C]Methyl-L-tryptophan $C_{16}H_{18}N_2O_5$ Molar Mass: 318.32 [79465-83-1] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: Pyrrolo[2,3-b]indole-1,2(2H)-dicarboxylic acid, 8-acetyl-3,3a,8,8a-tetrahydro-, dimethyl ester, (2 α ,3a beta,8a beta)- Synonyms: Dimethyl-(2S, 3aR, 8aS)-8-acetyl-1,2,3,3a,8a-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate Literature: Shoaf S. et al. The suitability of [^{11}C]- α -methyl-L-tryptophan as a tracer for serotonin synthesis: studies with dual administration of [^{11}C]- and [^{14}C]-labeled tracer. J. Cereb. Blood Flow Metab. 2000, 20, 244-252. Shoaf S. et al. Brain serotonin synthesis rates in rhesus monkeys determined by [^{11}C]- α -methyl-L-tryptophan and positron emission tomography compared to CSF 5-hydroxyindole-3-acetic acid concentrations. Neuropsychopharmacology 1998, 19, 354-353. Chakraborty P.K. et al. A high-yield and simplified procedure for the synthesis of α -[^{11}C]methyl-L-tryptophan. Nucl. Med. Biol. 1996, 23, 1005-1008. Mzengeza S. et al. Asymmetric radiosynthesis of α -[^{11}C]methyl-L-tryptophan for PET studies. Nucl. Med. Biol. 1995, 22, 303-307.	6500.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

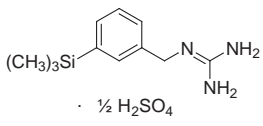
Product Number	Product	Order number / Unit
6510	<p>α-Methyl-L-tryptophan</p> <p>Reference standard for α-[^{11}C]Methyl-L-tryptophan</p> <p>$\text{C}_{12}\text{H}_{14}\text{N}_2\text{O}_2$ Molar Mass: 218.25</p> <p>[16709-25-4]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H NMR spectrum</p> <p>Chemical Name: CA index name: L-Tryptophan, α-methyl-</p> <p>Synonymes: n/a</p> <p>Literature: Shoaf S. et al. The suitability of [^{11}C]-α-methyl-L-tryptophan as a tracer for serotonin synthesis: studies with dual administration of [^{11}C]- and [^{14}C]-labeled tracer. J. Cereb. Blood Flow Metab. 2000, 20, 244-252.</p> <p>Shoaf S. et al. Brain serotonin synthesis rates in rhesus monkeys determined by [^{11}C]-α-methyl-L-tryptophan and positron emission tomography compared to CSF 5-hydroxyindole-3-acetic acid concentrations. Neuropsychopharmacology 1998, 19, 354-353.</p> <p>Chakraborty P.K. et al. A high-yield and simplified procedure for the synthesis of α-[^{11}C]methyl-L-tryptophan. Nucl. Med. Biol. 1996, 23, 1005-1008.</p> <p>Mzengeza S. et al. Asymmetric radiosynthesis of α-[^{11}C]methyl-L-tryptophan for PET studies. Nucl. Med. Biol. 1995, 22, 303-307.</p>	<p>6510.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

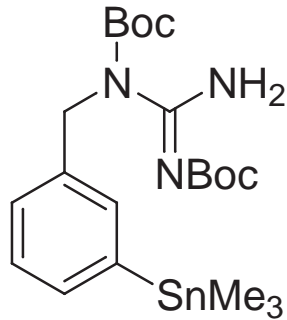
Product Number	Product	Order number / Unit
6520	<p>Dimethyl-8-phenylsulfonyl-5-phenylsulfonyloxy-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate Precursor for 5-OH-α-[^{11}C]Methyl-L-tryptophan</p> <p>$\text{C}_{26}\text{H}_{24}\text{N}_2\text{O}_9\text{S}_2$ Molar Mass: 572.61 [150804-39-0] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Pyrrolo[2,3-b]indole-1,2(2H)-dicarboxylic acid, 3,3a,8,8a-tetrahydro-8-(phenylsulfonyl)-5-[(phenylsulfonyl)oxy]-, dimethyl ester, [2S-(2α,3α beta,8α beta)]- Synonymes: Dimethyl-(2S, 3aR, 8aS)-8-phenylsulfonyl-5-phenylsulfonyloxy-1,2,3,3a,8a-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate</p> <p>Literature: Crich D. et al. Asymmetric synthesis of α-substituted 5-hydroxytryptophan derivatives. Heterocycles 1993, 36, 1199-1204.</p>	<p>6520.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

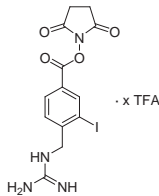
Product Number	Product	Order number / Unit
6532	5-FEHTP hydrochloride Reference standard for 5-[¹⁸F]FEHTP (L-5-(2-[¹⁸F]fluoroethoxy)tryptophan hydrochloride) $C_{13}H_{16}ClFN_2O_3$ Molar Mass: 302.73 [1215091-03-4] (free base) Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: L-5-(2-fluoroethoxy)tryptophan hydrochloride Synonyms: 5-[¹⁸ F]FEHTP standard Literature: Li R. et al. Synthesis and evaluation of L-5-(2-[¹⁸ F]fluoroethoxy)tryptophan as a new PET tracer. Appl. Radiat. Isot. 2010, 68, 303-308.	Please inquire for customized filling and bulk quantities. 

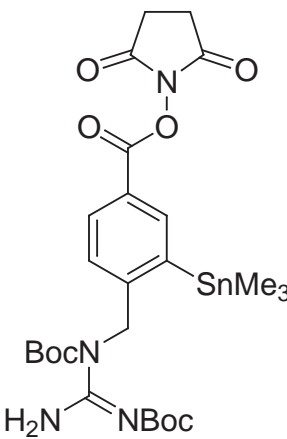
Product Number	Product	Order number / Unit
7000	MIBG Hemisulfate Precursor for [¹²³I]Metaiodobenzylguanidine $C_8H_{10}IN_3 \cdot \frac{1}{2} H_2SO_4$ Molar Mass: 324.13 [87862-25-7] [80663-95-2] (free base) White to off-white solid packaged in dark glass crimp cap vials (7000.0002 and 7000.0005) or screw cap vials (7000.0025, 7000.0050, 7000.0100, and 7000.1000) Purity: > 99 % (HPLC) Certificates: CoA; ¹ H NMR spectrum; HPLC Chemical Name: CA index name: Guanidine, [(3-iodophenyl)methyl]-, sulfate (2:1) Synonyms: (3-Iodobenzyl)guanidine hemisulfate; meta-Iodobenzylguanidine hemisulfate; lobenguane sulfate Literature: Wieland D.M. et al. Imaging the primate adrenal medulla with [¹²³ I] and [¹³¹ I]metaiodobenzylguanidine: concise communication. J. Nucl. Med. 1981, 22, 358-364. Shapiro B. et al. Iodine-131 Metaiodobenzylguanidine for the locating of suspected pheochromocytoma; experience on 400 cases. J. Nucl. Med. 1985, 26, 576-585. Moll V.O.N. et al. Iodine-131 MIBG scintigraphy of neuroendocrine tumors other than pheochromocytoma and neuroblastoma. J. Nucl. Med. 1987, 28, 979-988.	7000.0002: 2 mg per vial 7000.0005: 5 mg per vial 7000.0025: 25 mg per vial 7000.0050: 50 mg per vial 7000.0100: 100 mg per vial 7000.1000: 1 g per vial Please inquire for customized filling and bulk quantities. 

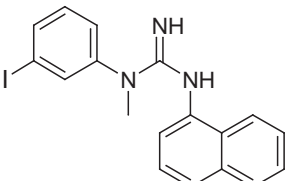
Product Number	Product	Order number / Unit
7001	<p>MIBG Hemisulfate (GMP) Precursor for [*I]Metaiodobenzylguanidine</p> <p>Manufactured according to GMP requirements for APIs (ICH Q7) U.S. Drug Master File (DMF) available.</p> <p>$C_8H_{10}IN_3 \cdot \frac{1}{2} H_2SO_4$ Molar Mass: 324.13 [87862-25-7]</p> <p>White to nearly white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 99 % (HPLC)</p> <p>Certificates: CoA with 1H NMR and IR spectra, melting point (identity), HPLC (purity), GC (residual solvents), Assay (HPLC)</p> <p>Chemical Name: CA index name: Guanidine, [(3-iodophenyl)methyl]-, sulfate (2:1)</p> <p>Synonyms: (3-Iodobenzyl)guanidine hemisulfate; meta-Iodobenzylguanidine hemisulfate; lobenguane sulfate</p> <p>Literature: Same as product number 7000.</p>	<p>7001.0010: 10 mg per vial 7001.0100: 100 mg per vial 7001.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

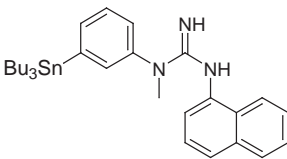
Product Number	Product	Order number / Unit
7010	<p>MTMSBG</p> <p>Precursor for n.c.a. [¹²⁵I]Metaiodobenzylguanidine</p> <p>$C_{11}H_{19}N_3Si \cdot \frac{1}{2} H_2SO_4$ Molar Mass: 270.41</p> <p>[143773-92-6] (free base)</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: Guanidine, [[3-(trimethylsilyl)phenyl]methyl]-, sulfate (2:1)</p> <p>Synonymes: (3-Trimethylsilylbenzyl)guanidine hemisulfate; meta-Trimethylsilylbenzylguanidine hemisulfate; 2-[(3-trimethylsilylphenyl)methyl]guanidine hemisulfate; MTMSBG hemisulfate</p> <p>Literature: Vaidyanathan G. et al. No-carrier added Synthesis of meta-[¹³¹I]iodobenzylguanidine. Appl. Radiat. Isot. 1993, 44(3), 621-628. Knickmeier M. et al. Clinical evaluation of no-carrier-added meta-[¹²³I]iodobenzylguanidine for myocardical scintigraphy. Eur. J. Nucl. Med. 2000, 27, 302-307.</p>	<p>7010.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

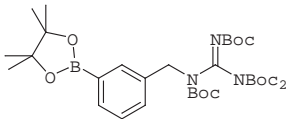
Product Number	Product	Order number / Unit
7012	<p>TMSnBG Precursor for n.c.a. [¹²⁵I]Metaiodobenzylguanidine</p> <p>C₂₁H₃₅N₃O₄Sn Molar Mass: 512.23 [1000875-21-7] colourless to yellowish oil or solid packaged in dark glass screw cap vials.</p> <p>Purity: Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: N,N'-Bis(tert-butoxycarbonyl)-N-(3-trimethylstannylbenzyl)guanidine</p> <p>Synonyms: TMSnBG</p> <p>Literature: Hammerschmidt F. et al Improved Synthesis of No-Carrier-Added [¹²⁵I]MIBG and Its Precursors. Synthesis 2012, 44, 3387-3391.</p>	<p>7012.0010: t10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

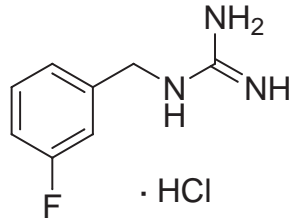
Product Number	Product	Order number / Unit
7014	<p>SGMIB Standard Standard for [¹³¹I]SGMIB N-succinimidyl 4-guanidinomethyl-3-[¹³¹I]iodobenzoate</p> <p>C₁₃H₁₃IN₄O₄ (Free base) Molar Mass: 416.17 (free base) [344791-53-3] (free base) Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 80 %</p> <p>Certificates: CoA; ¹H NMR spectrum; HPLC</p> <p>Chemical Name: N-Succinimidyl 4-Guanidinomethyl-3-iodobenzoate TFA salt</p> <p>Synonyms: Guanidine TFA salt, [[4-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]-2-iodophenyl]methyl]-; 4-Guanidinomethyl-3-iodo-benzoic acid 2,5-dioxo-pyrrolidin-1-yl ester TFA salt; Benzoic acid, 4-[[[(aminoiminomethyl)amino]methyl]-3-iodo- 2,5-dioxo-1-pyrrolidinyl ester TFA salt; SGMIB Standard</p> <p>Literature: Vaidyanathan G. et al. A Polar Substituent-Containing Acylation Agent for the Radioiodination of Internalizing Monoclonal Antibodies: N-Succinimidyl 4-Guanidinomethyl-3-[¹³¹I]iodobenzoate ([¹³¹I]SGMIB). Bioconjugate Chem. 2001, 12 ,428-438. Vaidyanathan G. et al. Synthesis of N-succinimidyl 4-guanidinomethyl-3-[¹²⁵I]iodobenzoate: a radio-iodination agent for labeling internalizing proteins and peptides. Nature Protocols 2007, 2, 282-286.</p>	<p>7014.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

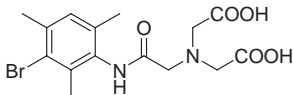
Product Number	Product	Order number / Unit
7015	<p>SGMIB Precursor</p> <p>Precursor for [¹³¹I]SGMIB</p> <p>N-succinimidyl 4-guanidinomethyl-3-[¹³¹I]iodobenzoate</p> <p>C₂₆H₃₈N₄O₈Sn Molar Mass: 653.31</p> <p>[344791-59-9]</p> <p>Colourless to off-white solid/foam packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Carbamic acid, [[[(1,1-dimethylethoxy)carbonyl]amino]iminomethyl][[4-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]-2-(trimethylstannyl)phenyl]methyl]-, 1,1-dimethylethyl ester</p> <p>Synonyms: N-Succinimidyl 4-[N1,N2-Bis(tert-butylloxycarbonyl)guanidinomethyl]-3-(trimethylstannyl)benzoate; Benzoic acid, 4-[[[(1,1-dimethylethoxy)carbonyl][[(1,1-dimethylethoxy)carbonyl]amino]iminomethyl]amino]methyl]-3-(trimethylstannyl)-, 2,5-dioxo-1-pyrrolidinyl ester; SGMIB Precursor</p> <p>Literature: Vaidyanathan G. et al. A Polar Substituent-Containing Acylation Agent for the Radioiodination of Internalizing Monoclonal Antibodies: N-Succinimidyl 4-Guanidinomethyl-3-[¹³¹I]iodobenzoate ([¹³¹I]SGMIB). <i>Bioconjugate Chem.</i> 2001, 12 ,428-438. Vaidyanathan G. et al. Synthesis of N-succinimidyl 4-guanidinomethyl-3-[*I]iodobenzoate: a radio-iodination agent for labeling internalizing proteins and peptides. <i>Nature Protocols</i> 2007, 2, 282-286.</p>	<p>7015.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

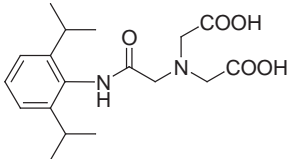
Product Number	Product	Order number / Unit
7020	<p>CNS 1261</p> <p>Reference standard for [*I]CNS 1261</p> <p>C₁₈H₁₆IN₃ Molar Mass: 401.24</p> <p>[341032-67-5]</p> <p>Colourless to slightly colored oil packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹³C NMR spectra</p> <p>Chemical Name: CA index name: Guanidine, N-(3-iodophenyl)-N-methyl-N'-1-naphthalenyl-</p> <p>Synonyms: N-1-Naphthyl-N'-3-iodophenyl-N'-methylguanidine</p> <p>Literature: Erlandsson K. et al. Kinetic modeling of [¹²³I]CNS 1261-a potential SPECT tracer for the NMDA receptor. <i>Nucl. Med. Biol.</i> 2003, 30, 441-454. Owens J. et al. Synthesis and binding characteristics of N-(1-naphthyl)-N'-(3-[¹²⁵I]iodophenyl)-N'-methylguanidine ([¹²⁵I]-CNS 1261): A potential SPECT agent for imaging NMDA receptor activation. <i>Nucl. Med. Biol.</i> 2000, 27, 557-564.</p>	<p>7020.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

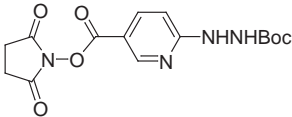
Product Number	Product	Order number / Unit
7030	<p>TBS-CNS 1261 Precursor for [¹²⁵I]CNS 1261</p> <p>C₃₀H₄₃N₃Sn Molar Mass: 564.39 [765890-24-2]</p> <p>Colourless to slightly colored oil packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹¹⁹Sn NMR spectra</p> <p>Chemical Name: CA index name: Guanidine, N-methyl-N'-1-naphthalenyl-N-[3-(tributylstannyl)phenyl]-</p> <p>Synonymes: N-(1-Naphthyl)-N'-[3-(tributylstannyl)phenyl]-N'-methylguanidine</p> <p>Literature: Erlandsson K. et al. Kinetic modeling of [¹²³I]CNS 1261-a potential SPECT tracer for the NMDA receptor. Nucl. Med. Biol. 2003, 30, 441-454. Owens J. et al. Synthesis and binding characteristics of N-(1-naphthyl)-N'-[3-[¹²⁵I]iodophenyl]-N'-methylguanidine ([¹²⁵I]-CNS 1261): A potential SPECT agent for imaging NMDA receptor activation. Nucl. Med. Biol. 2000, 27, 557-564.</p>	<p>7030.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

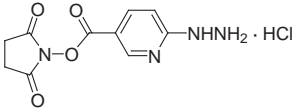
Product Number	Product	Order number / Unit
7033	<p>MFBG pinacol boronate precursor Precursor for meta-[¹⁸F]Fluorobenzylguanidine</p> <p>C₃₄H₅₄BN₃O₁₀ Molar Mass: 675.62 CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: tert-Butyl-N-[(1Z)-bis[(tert-butoxy)carbonyl]amino]([3-(tert-butoxy)carbonyl]([3-(tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)methyl)amino)methylidene]carbamate</p> <p>Synonyms: [¹⁸F]MFBG pinacol boronate precursor</p> <p>Literature: Garg P.K. et al. Synthesis and Preliminary Evaluation of para- and meta-[¹⁸F]Fluorobenzylguanidine. Nucl. Med. Biol. 1994, 21, 97-103. Preshlock S. Enhanced Copper-Mediated ¹⁸F-Fluorination of Aryl Boronic Esters provides Eight Radiotracers for PET Applications. Chem. Commun. 2016, 52, 8361-8364.</p>	<p>7033.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
7034	MFBG hydrochloride Precursor for meta-[¹⁸F]Fluorobenzylguanidine $C_8H_{11}ClFN_3$ Molar Mass: 203.64 [1246547-53-4] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹⁹ F NMR spectra Chemical Name: CA index name: Guanidine, N-[(3-fluorophenyl)methyl]-, hydrochloride (1:1) Synonyms: [¹⁸ F]MFBG standard Literature: Garg P.K. et al. Synthesis and Preliminary Evaluation of para- and meta-[¹⁸ F]Fluorobenzylguanidine. Nucl. Med. Biol. 1994, 21, 97-103.	Please inquire for customized filling and bulk quantities. 

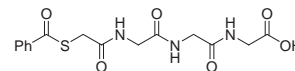
Product Number	Product	Order number / Unit
7050	Mebrofenin Ligand for labelling with ^{99m}Tc $C_{15}H_{19}BrN_2O_5$ Molar Mass: 387.23 [78266-06-5] Colourless or brownish crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Glycine, N-[2-[(3-bromo-2,4,6-trimethylphenyl)-amino]-2-oxoethyl]-N-(carboxymethyl)- Synonyms: N-[2-[(3-bromo-2,4,6-trimethylphenyl)-amino]-2-oxoethyl]-N-(carboxymethyl)-glycine; SQ26962 Literature: Jovanovic M.S. et al. Correlation between lipophilicity of the ligands and the hepatobiliary properties of the radiopharmaceuticals: approach to the development of new IDA derivatives. J. Radioanal. Nucl. Chem. 2000, 245, 555-560. Daniel G.B. et al. Hepatic extraction efficiency of technetium-99m-mebrofenin in the dog with toxic-induced acute liver disease. J. Nucl. Med. 1998, 39, 1286-1292.	7050.0100: 100 mg per vial 7050.1000: 1 g per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
7060	<p>Disofenin Ligand for labelling with ^{99m}Tc</p> <p>$\text{C}_{18}\text{H}_{26}\text{N}_2\text{O}_5$ Molar Mass: 350.41 [65717-97-7] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Glycine, N-[2-[[2,6-bis(1-methylethyl)phenyl]amino]-2-oxoethyl]-N-(carboxymethyl)-</p> <p>Synonyms: DISIDA, N-[[[(2,6-Diisopropylphenyl)carbonyl]methyl]iminodiacetic acid</p> <p>Literature: Jovanovic M.S. et al. Correlation between lipophilicity of the ligands and the hepatobiliary properties of the radiopharmaceuticals: approach to the development of new IDA derivatives. J. Radioanal. Nucl. Chem. 2000, 245, 555-560. Van der Walt T.N. et al. Indirect spectrophotometric determination of N-[4-(n-butyl)acetanilide]iminodiacetic acid (BIDA), N-(2,6-diisopropylacetanilide)iminodiacetic acid (DISIDA), diethylene-triaminepentaacetic acid (DTPA) and methylenediphosphonic acid (MDP) in labeled compounds. Appl. Radiat. Isot. 1989, 40, 525-529.</p>	<p>7060.0100: 100 mg per vial 7060.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

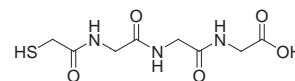
Product Number	Product	Order number / Unit
7080	<p>Succinimidyl-N-Boc-Hynic Ligand for labelling with ^{99m}Tc</p> <p>$\text{C}_{15}\text{H}_{18}\text{N}_4\text{O}_6$ Molar Mass: 350.33 [133081-26-2] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Hydrazinecarboxylic acid, 2-[5-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]-2-pyridinyl]-, 1,1-dimethylethyl ester Synonyms: 6-Boc-hydrazinopyridine-3-NHS; N'-5-[2-(2,5-Dioxo-pyrrolidin-1-yloxy)-acetyl]-pyridin-2-yl-hydrazinecarboxylic acid tert-butyl ester</p> <p>Literature: Abrams M.J. et al. Technetium-99-m-Human Polyclonal IgG radiolabeled via the hydrazino nicotinamide derivative for imaging focal sites of infection in rats. J. Nucl. Med. 1990, 31, 2022-2028. Decristoforo C. et al. ^{99m}Tc-HYNIC-[Tyr³]-octreotide for imaging somatostatin-receptor-positive tumors: preclinical evaluation and comparison with ^{111}In-octreotide. J. Nucl. Med. 2000, 41, 1114-1119.</p>	<p>7080.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
7090	<p>Succinimidyl-Hynic hydrochloride Ligand for labelling with ^{99m}Tc</p> <p>$\text{C}_{10}\text{H}_{10}\text{N}_4\text{O}_4 \cdot \text{HCl}$ Molar Mass: 286.67 [133081-27-3] [167639-20-5] (free base) Colourless to slightly grey solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: 2,5-Pyrrolidinedione, 1-[[[(6-hydrazino-3-pyridinyl)carbonyl]oxy]-, monohydrochloride Synonyms: OSU-Hynic; Succinimidyl-Hynic; Succinimidyl hydrazinium nicotinate hydrochloride Literature: Abrams M.J. et al. Technetium-99-m-Human Polyclonal IgG radiolabeled via the hydrazino nicotinamide derivative for imaging focal sites of infection in rats. J. Nucl. Med. 1990, 31, 2022-2028. Decristoforo C. et al. ^{99m}Tc-HYNIC-[Tyr³]-octreotide for imaging somatostatin-receptor-positive tumors: preclinical evaluation and comparison with ^{111}In-octreotide. J. Nucl. Med. 2000, 41, 1114-1119.</p>	<p>7090.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

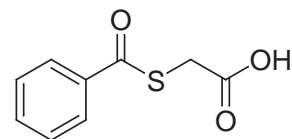
Product Number	Product	Order number / Unit
7100	S-Benzoyl-MAG-3 Ligand for labelling with ^{99m}Tc $\text{C}_{15}\text{H}_{17}\text{N}_3\text{O}_6\text{S}$ Molar Mass: 367.38 [103725-47-9] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: Glycine, N-[(benzoylthio)acetyl]glycylglycyl- Synonyms: Glycine, N-[N-[N-[(benzoylthio)acetyl]glycyl]glycyl]; Betiatide; N-(S-Benzoylmercapto)acetylglycylglycylglycine; S-Benzoylmercaptoacetyltriglycine; MP 600; BzSAc-Gly-Gly-Gly-OH Literature: Bormans G. et al. Investigation of the labeling characteristics of ^{99m}Tc - mercaptoacetyltriglycine. Nucl. Med. Biol. 1995, 22, 339-349. Noll B. et al. Preparation of the renal function and imaging agent technetium-99m-MAG3 starting from S-unprotected mercaptoacetyltriglycine. Appl. Radiat. Isot. 1992, 43, 899-901.	7100.0100: 100 mg per vial 7100.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



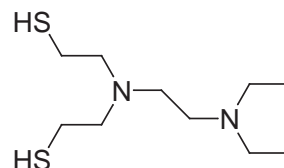
Product Number	Product	Order number / Unit
7110	MAG 3 Ligand for labelling with ^{99m}Tc $\text{C}_8\text{H}_{13}\text{N}_3\text{O}_5\text{S}$ Molar Mass: 263.27 [66516-09-4] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index names: Glycine, N-(mercaptoacetyl)glycylglycyl-; Glycine, N-[N-[N-(mercaptoacetyl)glycyl]glycyl]- Synonyms: Mercaptoacetylglycylglycylglycine; Mercaptoacetyltriglycine; Mertiatide Literature: Bormans G. et al. Investigation of the labeling characteristics of ^{99m}Tc - mercaptoacetyltriglycine. Nucl. Med. Biol. 1995, 22, 339-349. Noll B. et al. Preparation of the renal function and imaging agent technetium-99m-MAG3 starting from S-unprotected mercaptoacetyltriglycine. Appl. Radiat. Isot. 1992, 43, 899-901.	7110.0010: 10 mg per vial 7110.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

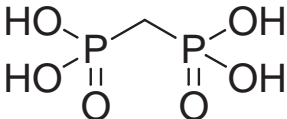


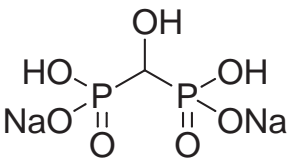
Product Number	Product	Order number / Unit
7111	(Benzoylmercapto)acetic acid $C_9H_8O_3S$ Molar Mass: 196.22 [6398-74-9] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: Acetic acid, 2-(benzoylthio)- Synonymes: Acetic acid, (benzoylthio)-; Acetic acid, mercapto-, benzoate; Benzoic acid, thio-, S-ester with mercaptoacetic acid; 2-(Benzoylmercapto)ethanoic acid; 2-(Benzoylthio)acetic acid; Benzoylthioglycolic acid; S-(Benzoylmercapto)acetic acid; S-Benzoylthioglycolic acid Literature: Park S. H. et al. Synthesis and biological characterization of $^{99m}Tc(I)$ tricarbonyl cysteine complex, a potential diagnostic for assessment of renal function. J. Labelled Compd. Radiopharm. 2005, 48, 63-74.	7111.0001: 1 mg per vial 7111.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

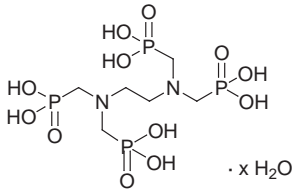


Product Number	Product	Order number / Unit
7150	BMEDA Ligand for labelling with ^{99m}Tc $C_{10}H_{24}N_2S_2$ Molar Mass: 236.44 [93798-62-0] Colourless to yellowish liquid packaged in dark glass crimp cap vials. Purity: > 90 % Certificates: CoA; 1H NMR spectrum; GC Chemical Name: CA index name: Ethanethiol, 2,2'-[[2-(diethylamino)ethyl]imino]bis- Synonymes: N,N-Bis(2-mercaptoethyl)-N',N'-diethylethylenediamine Literature: Bao A. et al. Direct ^{99m}Tc labelling of pegylated liposomal doxorubicin (doxil) for pharmacokinetic and non-invasive imaging studies. J. Pharmacol. Exp. Ther. 2004, 308, 419 -25. Leon A. et al. Novel mixed ligand technetium complexes as 5-HT1A receptor imaging agents. Nucl. Med. Biol. 2002, 29, 217-26.	7150.0010: 10 mg per vial 7150.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

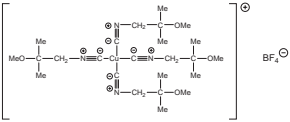


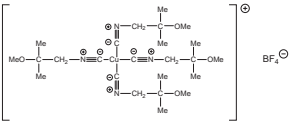
Product Number	Product	Order number / Unit
7160	MDP Ligand for labelling with ^{99m}Tc $\text{CH}_6\text{O}_6\text{P}_2$ Molar Mass: 176.00 [1984-15-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H and ^{31}P NMR spectra Chemical Name: CA index name: Phosphonic acid, methylenebis Synonyms: Phosphonic acid, methylenedi-; Medronic acid; Methanebisphosphonic acid; Methanediphosphonic acid; Methylene-1,1-bisphosphonic acid; Methylenebis[phosphonic acid]; Methylenediphosphonic acid; Methylene diphosphonate Literature: Subramanian G. et al. Technetium-99m-methylene diphosphonate - a superior agent for skeletal imaging: comparison with other technetium complexes. J. Nucl. Med. 1975, 16, 744-755. Blake G.M. et al. Quantitative Studies of Bone in Postmenopausal Women Using ^{18}F -Fluoride and ^{99m}Tc -Methylene Diphosphonate J. Nucl. Med. 2002, 43, 338-345. Moore A.E.B. et al. Validation of Ultrafiltration as a Method of Measuring Free ^{99m}Tc -MDP. J. Nucl. Med. 2003, 44, 891-897. Moore A.E.B. et al. Validation of a Blood-Sampling Method for the Measurement of ^{99m}Tc -Methylene Diphosphonate Skeletal Plasma Clearance. J. Nucl. Med. 2006, 47, 581-586.	7160.1000: 1 g per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
7161	HMDP Ligand for labelling with ^{99m}Tc $\text{CH}_4\text{Na}_2\text{O}_7\text{P}_2$ Molar Mass: 235.97 [14255-61-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H and ^{31}P NMR spectra Chemical Name: CA index name: Phosphonic acid, (hydroxymethylene)bis-, disodium salt; Phosphonic acid, (hydroxymethylene)di-, disodium salt Synonyms: Disodium (hydroxymethylene)diphosphonate; Disodium methane-1-hydroxy-1,1-diphosphonate; Methanehydroxydiphosphonic acid disodium salt; Oxidronate sodium; Oxidronic acid sodium salt; Sodium oxidronate Literature: Wang T.S.T. et al. Bone-Seeking Properties of Tc-99m Carbonyl Diphosphonic Acid, Dihydroxy Methylene Diphosphonic Acid and Monohydroxy-Methylene Phosphonic Acid: Concise Communication. J. Nucl. Med. 1980, 21, 767-770.	7161.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
7165	<p>EDTMP</p> <p>Ligand for radiolabelling</p> <p>$C_6H_{20}N_2O_{12}P_4 \cdot xH_2O$ Molar Mass: 436.12 [1429-50-1]</p> <p>White to off-white powder packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum</p> <p>Chemical Name: CA index name: Phosphonic acid, P,P',P'',P'''-[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis-</p> <p>Synonyms: Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis-; Phosphonic acid, [ethylenebis(nitrilodimethylene)]tetra-; Briquest 422-25S; Chelating agent 540; Chelest PH 540; Cublen 115; Dequest 2040; Dequest 2041; Editempa; EDPA; EDPA (chelating agent); EDTF; EDTMPA; EDTPA; EDTPH; Ethylenedi(nitrilodimethylene)tetraphosphonic acid; Ethylenediamine-N,N,N',N'-tetra(methylphosphonic acid); Ethylenediamine-N,N,N',N'-tetrakis(methylenephosphonic acid); Ethylenediaminetetra(methylenephosphonic acid); Ethylenediaminetetrakis(methylenephosphonic acid); Ethylenediaminetetrakis(methylphosphonic acid); Ethylenediaminetetramethylenephosphonate; Ethylenediaminotetra(methylenephosphonic acid); N,N,N',N'-Tetrakis(phosphonomethyl)ethylenediamine</p> <p>Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

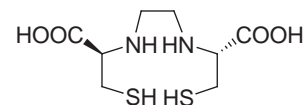
Product Number	Product	Order number / Unit
7200	<p>MIBI Ligand for labelling with ^{99m}Tc or ^{188}Re</p> <p>Caution, stench! $\text{C}_6\text{H}_{11}\text{NO}$ Molar Mass: 113.16 [109434-22-2] Colourless oil packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ^1H and ^{13}C NMR spectra Chemical Name: CA index name: Propane, 1-isocyano-2-methoxy-2-methyl- Synonymes: 2-Methoxyisobutyl isonitrile; 2-Methoxyisobutyl isocyanide Literature: Taki J. et al. Assessment of P-glycoprotein in patients with malignant bone and soft-tissue tumors using technetium-99m-MIBI scintigraphy. J. Nucl. Med. 1998, 39, 1179-1184. Kostakoglu L. et al. P-glycoprotein expression by technetium-99m-MIBI scintigraphy in hematologic malignancy. J. Nucl. Med. 1998, 39, 1191-1197. Lee T.-W. et al. Synthesis, reactivity and ^{99m}Tc labeling of 2-alkoxyisobutylisonitrile. Appl. Radiat. Isot. 1996, 47, 207-210.</p>	<p>7200.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> $\begin{array}{c} \text{Me} \\ \\ \text{MeO}-\text{C}-\text{CH}_2-\text{NC} \\ \\ \text{Me} \end{array}$

Product Number	Product	Order number / Unit
7210	<p>Copper tetraMIBI tetrafluoroborate [Cu(MIBI)₄]BF₄ Ligand for labelling with ^{99m}Tc or ¹⁸⁸Re</p> <p>C₂₄H₄₄CuN₄O₄ · BF₄ Molar Mass: 602.98 [103694-84-4]</p> <p>Colourless to white crystalline solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H, ¹³C and ¹⁹F NMR spectra</p> <p>Chemical Name: CA index name: Copper(1+), tetrakis[1-(isocyano-kappaC)-2-methoxy-2-methylpropane]-, (T-4)-, tetrafluoroborate(1-)</p> <p>Synonyms: Tetrakis (2-methoxy isobutyl isonitrile) Copper (I) tetrafluoroborate; Propane, 1-isocyano-2-methoxy-2-methyl-, copper complex; Cardio-Spect; [Cu(MIBI)₄]BF₄; Copper tetraMIBI tetrafluoroborate; CuMibi; Copper MIBI; Cu MIBI</p> <p>Literature: Taki J. et al. Assessment of P-glycoprotein in patients with malignant bone and soft-tissue tumors using technetium-99m-MIBI scintigraphy. J. Nucl. Med. 1998, 39, 1179-1184. Kostakoglu L. et al. P-glycoprotein expression by technetium-99m-MIBI scintigraphy in hematologic malignancy. J. Nucl. Med. 1998, 39, 1191-1197. Lee T.-W. et al. Synthesis, reactivity and ^{99m}Tc labeling of 2-alkoxyisobutylisonitrile. Appl. Radiat. Isot. 1996, 47, 207-210.</p>	<p>7210.0100: 100 mg per vial 7210.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

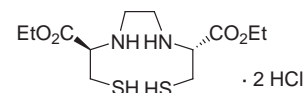
Product Number	Product	Order number / Unit
7211	<p>Copper tetraMIBI tetrafluoroborate (GMP) Ligand for labelling with ^{99m}Tc or ¹⁸⁸Re</p> <p>Manufactured according to GMP requirements for APIs (ICH Q7) European Drug Master File (ASMF) available.</p> <p>C₂₄H₄₄CuN₄O₄ · BF₄ Molar Mass: 602.98 [103694-84-4]</p> <p>Colourless to white crystalline solid packaged in dark glass screw cap vials.</p> <p>Purity: > 99 %</p> <p>Certificates: CoA with ¹H, ¹³C, ¹⁹F NMR, and IR spectra and melting point (identity); HPLC (purity); GC (residual solvents); Assay (HPLC); Assay Boron and Copper (ICP-MS); microbiology test</p> <p>Chemical Name: CA index name: Copper(1+), tetrakis[1-(isocyano-kappaC)-2-methoxy-2-methylpropane]-, (T-4)-, tetrafluoroborate(1-)</p> <p>Synonyms: Tetrakis (2-methoxy isobutyl isonitrile) Copper (I) tetrafluoroborate; Propane, 1-isocyano-2-methoxy-2-methyl-, copper complex; Cardio-Spect; [Cu(MIBI)₄]BF₄; Copper tetraMIBI tetrafluoroborate; CuMibi; Copper MIBI; Cu MIBI</p> <p>Literature: Same as product number 7210.</p>	<p>7211.0100: 100 mg per vial 7211.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

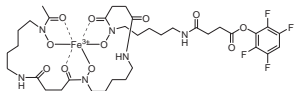
Product Number	Product	Order number / Unit
7220	<p>Zinc-TBI</p> <p>Ligand for labelling with ^{99m}Tc</p> <p>$\text{C}_{10}\text{H}_{18}\text{Br}_2\text{N}_2\text{Zn}$ Molar Mass: 391.46</p> <p>[104676-71-3]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ^1H NMR spectrum</p> <p>Chemical Name: CA index name: Zinc, dibromobis(2-isocyano-2-methylpropane-, (T-4)</p> <p>Synonymes: Zinc-TBI-complex; Propane, 2-isocyano-2-methyl-, zinc complex; $\text{Zn}(\text{tBuNC})\text{Br}_2$</p> <p>Literature: Holman B.L. et al. A New Tc-99m-labeled Myocardial Imaging Agent, Hexakis(t-Butylisonitrile)-Technetium(I) [Tc-99m TBI]: Initial Experience in the Human. J. Nucl. Med. 1984, 25, 1350-55.</p>	<p>7220.0100: 100 mg per vial</p> <p>7220.1000: 1 g per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> $\left[\text{Zn} \cdot \left(\text{C} \equiv \text{N} - \begin{array}{c} \diagup \\ \diagdown \end{array} \right)_2 \right]^+ 2 \text{Br}^-$

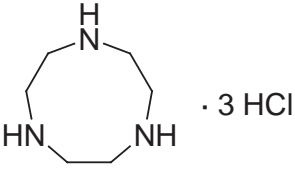
Product Number	Product	Order number / Unit
7250	EC Ligand for labelling with ^{99m}Tc $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_4\text{S}_2$ Molar Mass: 268.36 [14344-48-0] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: L-Cysteine, N,N'-1,2-ethanediylbis- Synonyms: N,N'-1,2-ethylenebis-L-cysteine; L,L-Ethylenedicysteine Literature: Yang D. et al. Tumor specific imaging using Tc-99m and Ga-68 labeled radio-pharmaceuticals. Current Medical Imaging Reviews 2005, 1, 25-34. Verbruggen A.M. et al. Technetium-99m-L,L-Ethylene-dicysteine: A renal imaging agent. I. Labeling and evaluation in Animals. J. Nucl. Med. 1992, 33, 551-57.	7250.0100: 100 mg per vial 7250.1000: 1 g per vial Please inquire for customized filling and bulk quantities.

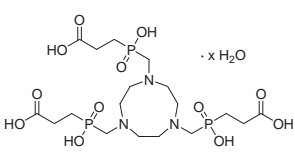


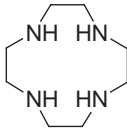
Product Number	Product	Order number / Unit
7260	ECD Ligand for labelling with ^{99m}Tc $\text{C}_{12}\text{H}_{24}\text{N}_2\text{O}_4\text{S}_2 \cdot 2 \text{HCl}$ Molar Mass: 397.38 [14344-58-2] [121251-02-3] (free base) Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ^1H NMR spectrum Chemical Name: CA index name: L-Cysteine, N,N'-1,2-ethanediylbis-, diethyl ester, dihydrochloride Synonyms: N,N'-1,2-ethylenebis-L-cysteine, diethyl ester, dihydrochloride; Neurolite Literature: Tikofsky R.F. et al. Radiopharmaceuticals for Brain Imaging: The Technologist's Perspective. J. Nucl. Med. Technol. 1993, 21, 57-60. Hung J.C. et al. Rapid quality control procedure for technetium-99-bicisate. J. Nucl. Med. Technol. 1995, 23, 190-94. Hung J.C. et al. Rapid preparation method for technetium-99m bicisate. Eur. J. Nucl. Med. Mol. Imag. 1997, 24, 655-659.	7260.0100: 100 mg per vial 7260.1000: 1 g per vial Please inquire for customized filling and bulk quantities.



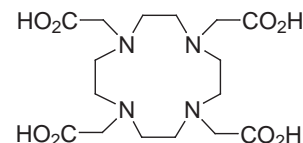
Product Number	Product	Order number / Unit
7270	<p>TFP-N-sucDf-Fe</p> <p>Precursor for mAb-N-sucDf-⁸⁹Zr</p> <p>⁸⁹Zr-conjugates with monoclonal antibodies</p> <p>C₃₅H₄₉F₄FeN₆O₁₁ Molar Mass: 861.64</p> <p>[676596-40-0]</p> <p>Brown to red solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: CA index name: Iron, [2,3,5,6-tetrafluorophenyl 3,14,25-tri(hydroxy-κO)-2,13,24-tri(oxo-κO)-10,21,24-trioxo-3,9,14,20,25,31-hexaazapentatriacontan-35-oato(3-)]-</p> <p>Synonyms: TFP-N-Succinyl-desferal-Fe</p> <p>Literature: Verel I. et al. ⁸⁹Zr Immuno-PET: Comprehensive Procedures for the Production of ⁸⁹Zr-Labeled Monoclonal Antibodies. J. Nucl. Med. 2003, 44, 1271-1281.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
7281	<p>TACN</p> <p>Chelator for radiometals</p> <p>C₆H₁₈Cl₃N₃ Molar Mass: 238.59</p> <p>[58966-93-1]</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: 1H-1,4,7-Triazonine, octahydro-, hydrochloride (1:3)</p> <p>Synonyms: 1H-1,4,7-Triazonin, octahydro-, trihydrochloride; 1,4,7-Triazacyclononane trihydrochloride</p> <p>Literature: Fichna J. et al. Synthesis of Target-Specific Radiolabeled Peptides for Diagnostic Imaging. Bioconjugate Chem, 2003, 14, 3-17.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

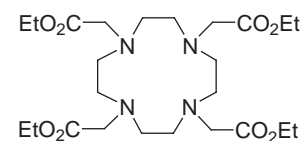
Product Number	Product	Order number / Unit
7284	<p>PrP9</p> <p>Bifunctional chelating agent</p> <p>$C_{18}H_{44}N_3O_{16}P_3 \cdot x H_2O$ Molar Mass: 651.47</p> <p>[1242003-07-1] (water free compound)</p> <p>Colourless solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum</p> <p>Chemical Name: CA index name: Propanoic acid, 3,3',3''-[(hexahydro-1H-1,4,7-triazonine-1,4,7-triyl)tris(methylenephosphinico)]tris-</p> <p>Synonymes: TRAP-Pr; 1,4,7-triazacyclononane-1,4,7-tris[methyl(2-carboxyethyl)phosphinic acid; 3-(4,7-Bis-[(2-carboxy-ethyl)-hydroxy-phosphinoylmethyl]-[1,4,7]triazonan-1-yl)methyl-hydroxy-phosphinoyl]-propionic acid</p> <p>Literature: Notni J. et al. A Triazacyclononane-Based Bifunctional Phosphinate Ligand for the Preparation of Multimeric ^{68}Ga Tracers for Positron Emission Tomography. Chem. Eur. J. 2010, 16, 7174-7185. Notni J. et al. TRAP, a Powerful and Versatile Framework for Gallium-68 Radiopharmaceuticals. Chem. Eur. J. 2011, 17, 14718-14722.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

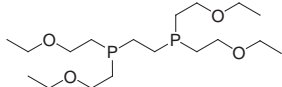
Product Number	Product	Order number / Unit
7290	<p>Cyclen</p> <p>$C_8H_{20}N_4$ Molar Mass: 172.27 [294-90-6]</p> <p>White to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum; GC</p> <p>Chemical Name: CA index name: 1,4,7,10-Tetraazacyclododecane</p> <p>Synonyms: 1,4,7,10-Tetraazacyclododecane; Tetraaza-12-crown-4</p> <p>Literature: De León-Rodríguez et al. The Synthesis and Chelation Chemistry of DOTA-Peptide Conjugates. Bioconjugate Chem. 2008, 19, 391-402.</p>	<p>7290.0010: 10 mg per vial 7290.0100: 100 mg per vial 7290.1000: 1 g per vial Please inquire for customized filling and bulk quantities.</p> 

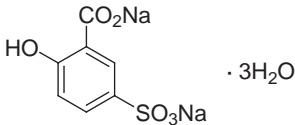
Product Number	Product	Order number / Unit
7300	DOTA Cation complexation agent $C_{16}H_{28}N_4O_8 \cdot H_2O$ Molar Mass: 404.42 [60239-18-1] Colourless crystals packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid Synonyms: 1,4,7,10-Tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid; NSC 681107; Tetraxetan Literature: Li W.P. et al. DOTA-D-Tyr1-Octreotate: A Somatostatin Analogue for Labeling with Metal and Halogen Radionuclides for Cancer Imaging and Therapy. Bioconjugate Chem. 2002, 13, 721-728. Traub T. et al. ^{111}In -DOTA-Lanreotide Scintigraphy in Patients with Tumors of the Lung. J. Nucl. Med. 2001, 42, 1309-1315.	7300.0010: 10 mg per vial 7300.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

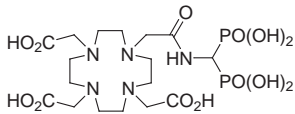


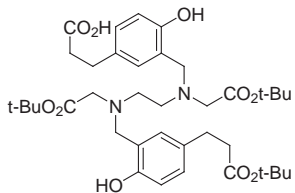
Product Number	Product	Order number / Unit
7301	DOTAEt Cation complexation agent $C_{24}H_{44}N_4O_8$ Molar Mass: 516.63 [137076-50-7] Colourless to yellowish powder packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum Chemical Name: CA index name: 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, tetraethyl ester Synonyms: Tetraethyl 2,2',2'',2'''-(1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrayl)tetraacetate Literature: Sangsuriyan J. et al. Radiolabelling of monoclonal antibodies for radiotherapy. International Atomic Energy Agency, [Technical Document], IAEA-TECDOC 2003, IAEA-TECDOC-1359, Labeling Techniques of Biomolecules for Targeted Radiotherapy, 165-182.	7301.0010: 10 mg per vial 7301.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.

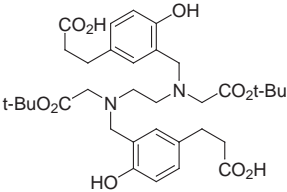


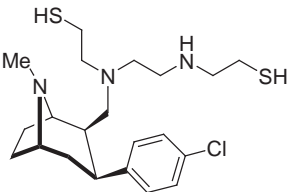
Product Number	Product	Order number / Unit
7310	Tetrofosmin Complexation agent for [^{99m}Tc]-Labelling $C_{18}H_{40}O_4P_2$ Molar Mass: 382.46 [127502-06-1] Yellowish liquid packaged in dark glass crimp cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ³¹ P NMR spectra Chemical Name: CA index name: 3,12-Dioxa-6,9-diphosphatetradecane, 6,9-bis(2-ethoxyethyl)- Synonymes: Tetrofosmin, P 53 Literature: Kelly J.D. et al. Technetium-99m-Tetrofosmin as a New Radiopharmaceutical for Myocardial Perfusion Imaging. J. Nucl. Med. 1993, 34, 222-227. Higley B. et al. Technetium-99m,-1,2-bis[bis(2-Ethoxy-ethyl)Phosphino]Ethane: Human Biodistribution, Dosimetry and Safety of a New Myocardial Perfusion Imaging Agent. J. Nucl. Med. 1993, 34, 30-38.	7310.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

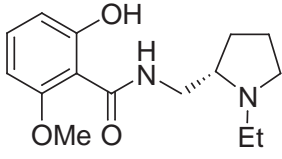
Product Number	Product	Order number / Unit
7312	Disodium sulfosalicylate Reagent for the preparation of [^{99m}Tc]Tetrofosmin $C_7H_4Na_2O_6S \cdot 3 H_2O$ Molar Mass: 316.19 (trihydrate) [56343-01-2] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: Benzoic acid, 2-hydroxy-5-sulfo-, disodium salt Synonymes: 5-Sulfosalicylic acid disodium salt; Disodium 5-sulfosalicylate; 2-(Sulfooxy)benzoic acid disodium salt; Salicylsulfonic acid disodium salt; Salicylsulfuric acid disodium salt Literature: Kelly J.D. et al. Technetium-99m-Tetrofosmin as a New Radiopharmaceutical for Myocardial Perfusion Imaging. J. Nucl. Med. 1993, 34, 222-227. Higley B. et al. Technetium-99m,-1,2-bis[bis(2-Ethoxy-ethyl)Phosphino]Ethane: Human Biodistribution, Dosimetry and Safety of a New Myocardial Perfusion Imaging Agent. J. Nucl. Med. 1993, 34, 30-38.	7312.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

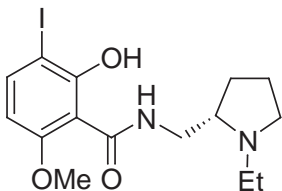
Product Number	Product	Order number / Unit
7320	<p>BPAMD</p> <p>Precursor for radiolabelled BPAMD (Bis(phosphonate) Monoamide Analogues of DOTA)</p> <p>$C_{17}H_{33}N_5O_{13}P_2$ Molar Mass: 577.42 [872469-60-8]</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: CA index name: 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[(diphosphonomethyl)amino]-2-oxoethyl]-</p> <p>Synonyms: n/a</p> <p>Literature: Vitha T. et al. Lanthanide(III) Complexes of Bis(phosphonate) Monoamide Analogues of DOTA: Bone-Seeking Agents for Imaging and Therapy. J. Med. Chem. 2008, 51, 677-683.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 


Product Number	Product	Order number / Unit
7330	<p>HBED-CC-tris(tBu)ester</p> <p>Bifunctional chelating agent</p> <p>Caution, hygroscopic!</p> <p>$C_{38}H_{56}N_2O_{10}$ Molar Mass: 700.86 CAS-RN not yet assigned colourless to off-white solid packaged in dark glass vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum; HPLC; ESI-MS</p> <p>Chemical Name: 3-(3-[(2-[5-(2-tert-Butoxycarbonyl-ethyl)-2-hydroxy-benzyl]-tert-butoxycarbonylmethyl-amino-ethyl)-tert-butoxycarbonylmethyl-amino]-methyl-4-hydroxy-phenyl)-propionic acid</p> <p>Synonyms: N,N'-Bis[2-hydroxy-5-(carboxyethyl)-benzyl]ethylenediamine-N,N'-diacetic acid, tris tert-butyl ester</p> <p>Literature: Eder M. et al. ^{68}Ga-labelled recombinant antibody variants for immuno-PET imaging of solid tumors. Eur. J. Nucl. Med. Mol. Imaging. 2010, 37, 1397-1407. Eder M. et al. ^{68}Ga-Complex Lipophilicity and the Targeting Property of a Urea-Based PSMA Inhibitor for PET Imaging. Bioconjugate Chem. 2012, 23, 688-697.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

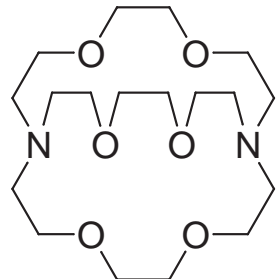
Product Number	Product	Order number / Unit
7331	HBED-CC-di(tBu)ester Bifunctional chelating agent $C_{34}H_{48}N_2O_{10}$ Molar Mass: 644.75 CAS-RN not yet assigned Colourless to yellowish solid packaged in dark glass vials. Purity: > 95 % Certificates: CoA; 1H NMR spectrum; HPLC; ESI-MS Chemical Name: 3-(3-[tert-Butoxycarbonylmethyl-(2-tert-butoxycarbonylmethyl-[5-(2-carboxy-ethyl)-2-hydroxy-benzyl]-amino-ethyl)-amino]-methyl-4-hydroxy-phenyl)-propionic acid Synonyms: N,N'-Bis[2-hydroxy-5-(carboxyethyl)-benzyl]ethylenediamine-N,N'-diacetic acid, bis tert-butyl ester Literature: Schäfer M. et al. A dimerized urea-based inhibitor of the prostate-specific membrane antigen for ^{68}Ga -PET imaging of prostate cancer. EJNMMI Research 2012, 2, 23.	Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
7400	TRODAT Ligand for labelling with ^{99m}Tc $C_{21}H_{34}ClN_3S_2 \cdot C_6H_3F_9O_6$ Molar Mass: 770.16 [189950-11-6] (free base) Colourless oil packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; 1H and ^{19}F NMR spectra Chemical Name: CA index name: Ethanethiol, 2-[[2-[[[(1R,2R,3S,5S)-3-(4-chlorophenyl)-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]methyl](2-mercaptoethyl)amino]ethyl]amino]-, trifluoroacetate salt (1:3) Synonyms: Ethanethiol, 2-[[2-[[[3-(4-chlorophenyl)-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]methyl](2-mercaptoethyl)amino]ethyl]amino]-, [1R-(exo,exo)]-, trifluoroacetate salt (1:3) Literature: Meegalla S.K. et al. Synthesis and Characterization of Technetium-99m-Labeled Tropanes as Dopamine Transporter-Imaging Agents J. Med. Chem. 1997, 40, 9-17. Choi S.R. et al. An improved kit formulation of a dopamine transporter imaging agent: [^{99m}Tc]TRODAT-1 Nucl. Med. Biol. 1999, 26, 461-466.	7400.0001: 1 mg per vial 7400.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.  · 3 CF ₃ CO ₂ H

Product Number	Product	Order number / Unit
7500	<p>S-(-)-BZM Precursor for S-(-)-[^{123/125}I]IBZM</p> <p>C₁₅H₂₂N₂O₃ Molar Mass: 278.35 [84226-04-0]</p> <p>Pale yellow semisolid or solid. packaged in dark glass crimp cap vials (7500.0001) or screw cap vials (7500.0010).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Benzamide, N-[[[(2S)-1-ethyl-2-pyrrolidinyl)methyl]-2-hydroxy-6-methoxy-; Benzamide, N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-hydroxy-6-methoxy-, (S)-</p> <p>Synonymes: BZM; S-(-)-2-Hydroxy-6-methoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide</p> <p>Literature: Kung H.F. et al. Dopamine D-2 receptor Imaging Radiopharmaceuticals: Synthesis, Radiolabeling and in Vitro binding of R(+)- and S(-)-3-iodo-2-hydroxy-6-methoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide. J. Med. Chem. 1988, 31, 1039-1043.</p> <p>Norinder U. et al. A quantitative structure-activity relationship for some dopamine D2 antagonists of benzamide type. Acta Pharm. Nord. 1992, 4, 73-78.</p>	<p>7500.0001: 1 mg per vial 7500.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
7510	<p>S-(-)-IBZM Reference standard for S-(-)-[*I]IBZM Precursor for S-(-)-[^{123/125}I]IBZM</p> <p>C₁₅H₂₁IN₂O₃ Molar Mass: 404.24 [84226-06-2]</p> <p>Dark yellow oil packaged in dark glass crimp cap vials (7510.0001) or screw cap vials (7510.0010).</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum</p> <p>Chemical Name: CA index name: Benzamide, N-[[[(2S)-1-ethyl-2-pyrrolidinyl)methyl]-2-hydroxy-3-iodo-6-methoxy-</p> <p>Synonymes: Iodobenzamide, (S)-(-)-3-Iodo-2-hydroxy-6-methoxy-N[(1-ethyl-2-pyrrolidinyl)methyl]benzamide</p> <p>Literature: Kung H.F. et al. Dopamine D-2 receptor Imaging Radiopharmaceuticals: Synthesis, Radiolabeling and in Vitro binding of R(+)- and S(-)-3-iodo-2-hydroxy-6-methoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide. J. Med. Chem. 1988, 31, 1039-1043.</p> <p>Cordes M. et al. Initial experience with SPECT examinations using [¹²³I]IBZM as a D2-dopamine receptor antagonist in Parkinson's disease. Eur. J. Radiol. 1991, 12, 182.</p> <p>Innis R.B. et al. Amphetamine-stimulated dopamine release competes in vivo for [¹²³I]IBZM binding to the D2receptor in nonhuman primates. Synapse 1992, 10, 177.</p> <p>Ichise M. et al. Iodine-123-IBZM dopamine D2receptor and technetium -99 m-HMPAO brain perfusion SPECT in the evaluation of patients with and subjects at risk for Huntington's disease J. Nucl. Med. 1993, 34, 1274.</p>	<p>7510.0001: 1 mg per vial 7510.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
7520	Gallium Citrate (complex) Reference standard for [⁶⁷Ga]Gallium citrate $C_{12}H_{33}GaN_4O_{18}$ Molar Mass: 591.13 CAS-RN not yet assigned Colourless crystals packaged in dark glass screw cap vials. Purity: not defined Certificates: elemental analysis Chemical Name: ammonium gallium(III) citrate Synonymes: $(NH_4)_4[Ga(C_6H_5O_7)(C_6H_4O_7)] \cdot 4 H_2O$ Literature: no literature reference available	7520.0001: 1 mg per vial 7520.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. $(NH_4)_4[Ga(C_6H_5O_7)(C_6H_4O_7)] \cdot 3 H_2O$
Product Number	Product	Order number / Unit
7600	16-Iodoheptadecanoic acid Reference standard for 16-[¹²⁵I]Iodoheptadecanoic acid Precursor for 16-[¹²⁵I]Iodoheptadecanoic acid $C_{16}H_{31}IO_2$ Molar Mass: 382.32 [2536-36-9] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H and ¹³ C NMR spectra Chemical Name: CA index name: Heptadecanoic acid, 16-iodo- Synonymes: IHDA Literature: DeGrado T.R. et al. Comparison of 16-iodoheptadecanoic acid (IHDA) and 15-(p-iodophenyl)pentadecanoic acid (IPPA) metabolism and kinetics in the isolated rat heart. Eur. J. Nucl. Med. 1988, 14, 600-606.	7600.0010: 10 mg per vial 7600.0100: 100 mg per vial Please inquire for customized filling and bulk quantities. 

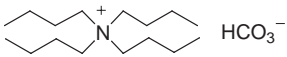
Product Number	Product	Order number / Unit
800	Cryptand 222	
	Aminopolyether used to dissolve K⁺ salts in nucleophilic [¹⁸F]labelling reactions	
	C ₁₈ H ₃₆ N ₂ O ₆ Molar Mass: 376.49	
	[23978-09-8]	
	Colourless crystals packaged in dark glass crimp cap vials (8000.0015 and 8000.0020) or screw cap vials (8000.0100, 8000.0250, and 8000.1000).	
	Purity: > 99 %	
	Certificates:	
	CoA; ¹ H NMR spectrum; GC-MS; IR spectrum	
	Chemical Name:	
	CA index name:	
	4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane	
	Synonymes:	
	2,2,2-Crypt; 2,2,2-Cryptand; 2,2,2-Cryptate; Crypt-2,2,2; Cryptand 2.2.2; Cryptand C 222; Cryptate 222; Cryptating agent 222; Cryptofix 222; Kryptand 222; Kryptofix 222;	
	Literature:	
	Huang J.C. Comparison of Various Requirements of the Quality Assurance Procedures for ¹⁸ F-FDG Injection. J. Nucl. Med. 2002, 43, 1495-1506.	
	Lemaire C. et al. No-carrier-added regioselective preparation of 6-[¹⁸ F]fluoro-L-DOPA. J. Nucl. Med. 1990, 31, 1247-51.	
	Moerlein S. et al. Elimination of contaminant Kryptofix 2.2.2 in the routine production of 2-[¹⁸ F]fluoro-2-deoxy-D-glucose. Int. J. Rad. Appl. Instrum. [A] 1989, 40, 741-3.	
	Chaly T. et al. Thin layer chromatographic detection of Kryptofix 222 in the routine synthesis of [¹⁸ F]2-fluoro-2-deoxy-D-glucose. Int. J. Rad. Appl. Instrum. [B] 1989, 16, 385-7.	
		<div> 800.0015: 15 mg per vial 800.0020: 20 mg per vial 800.0025: 25 mg per vial 800.0100: 100 mg per vial 800.0250: 250 mg per vial 800.1000: 1 g per vial Please inquire for customized filling and bulk quantities. </div>
		


Product Number	Product	Order number / Unit
801	<p>Lithium Aluminium Hydride in THF bulk 1 M solution in dried tetrahydrofuran with controlled ¹²C-background Reagent for ¹¹C radiochemistry</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere does not affect product quality.</p> <p>LiAlH₄ Molar Mass: 37.95 [16853-85-3]</p> <p>Clear colourless liquid packaged in clear glass vials (2 ml) sealed with teflon-faced rubber stoppers and tear-off crimp caps.</p> <p>Purity: ≤ 5 ppm Carbonate ≤ 50 ppm Methanol</p> <p>Certificates: CoA; Background 12C ([12C]Carbonate determined as [12C]CO₂ and [12C]Methanol as methyl acetate by gas chromatography)</p> <p>Chemical Name: CA index name: lithium aluminium hydride</p> <p>Synonyms: Aluminium lithium tetrahydride; Lithium alanate; Lithium aluminium tetrahydride; Lithium tetrahydroaluminate</p> <p>Literature: Harada N. et al. Measurement of the carbon source which is responsible for dilution in Carbon-11 labelling reactions. J. Appl. Radiat. Isot. 1993, 44, 629. Marazano C. et al. Synthesis of [¹¹C]formaldehyde. Int. J. Appl. Radiat. Isot. 1977, 28, 49. Iwata R. et al. Comparative study of specific activity of (¹¹C)methyl iodide. A search for the source of carrier carbon. J. Appl. Radiat. Isot. 1988, 39, 1.</p>	<p>801.0001: 1 ml per vial Please inquire for customized filling and bulk quantities.</p> <p>LiAlH₄</p>

Product Number	Product	Order number / Unit
802	<p>Lithium aluminium hydride (0.1 M in THF) 0.1 M solution in dried tetrahydrofuran with controlled ¹²C-background</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere does not affect product quality.</p> <p>LiAlH₄ Molar Mass: 37.95 [16853-85-3]</p> <p>Clear colourless liquid packaged in clear glass vials (2 ml) sealed with teflon-faced rubber stoppers and tear-off crimp caps.</p> <p>Purity: ≤ 5 ppm Carbonate ≤ 50 ppm Methanol</p> <p>Certificates: CoA; Background 12C ([12C]Carbonate determined as [12C]CO₂ and [12C]Methanol as methyl acetate by gas chromatography)</p> <p>Chemical Name: CA index name: lithium aluminium hydride</p> <p>Synonyms: Aluminium lithium tetrahydride; Lithium alanate; Lithium aluminium tetrahydride; Lithium tetrahydroaluminate</p> <p>Literature: Same as product number 801.</p>	<p>802.0001: 1 ml per vial Please inquire for customized filling and bulk quantities.</p> <p>LiAlH₄</p>

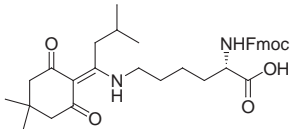
Product Number	Product	Order number / Unit
803	<p>Lithium aluminium hydride (0.25 M in THF) 0.25 M solution in dried tetrahydrofuran with controlled ¹²C-background</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere does not affect product quality.</p> <p>LiAlH₄ Molar Mass: 37.95 [16853-85-3]</p> <p>Clear colourless liquid packaged in clear glass vials (2 ml) sealed with teflon-faced rubber stoppers and tear-off crimp caps.</p> <p>Purity: ≤ 5 ppm Carbonate ≤ 50 ppm Methanol</p> <p>Certificates: CoA; Background 12C ([12C]Carbonate determined as [12C]CO₂ and [12C]Methanol as methyl acetate by gas chromatography)</p> <p>Chemical Name: CA index name: lithium aluminium hydride</p> <p>Synonyms: Aluminium lithium tetrahydride; Lithium alanate; Lithium aluminium tetrahydride; Lithium tetrahydroaluminate</p> <p>Literature: Same as product number 801.</p>	<p>803.0001: 1 ml per vial Please inquire for customized filling and bulk quantities.</p> <p>LiAlH₄</p>

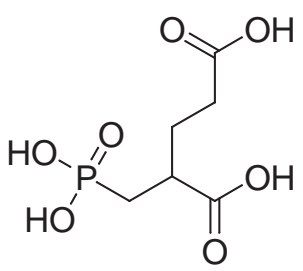
Product Number	Product	Order number / Unit
804	<p>Lithium aluminium hydride (0.05 M in THF) 0.05 M solution in dried tetrahydrofuran with controlled ¹²C-background</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere does not affect product quality.</p> <p>LiAlH₄ Molar Mass: 37.95 [16853-85-3]</p> <p>Clear colourless liquid packaged in clear glass vials (2 ml) sealed with teflon-faced rubber stoppers and tear-off crimp caps.</p> <p>Purity: ≤ 5 ppm Carbonate ≤ 50 ppm Methanol</p> <p>Certificates: CoA; Background 12C ([12C]Carbonate determined as [12C]CO₂ and [12C]Methanol as methyl acetate by gas chromatography)</p> <p>Chemical Name: CA index name: lithium aluminium hydride</p> <p>Synonyms: Aluminium lithium tetrahydride; Lithium alanate; Lithium aluminium tetrahydride; Lithium tetrahydroaluminate</p> <p>Literature: Same as product number 801.</p>	<p>804.0001: 1 ml per vial Please inquire for customized filling and bulk quantities.</p> <p>LiAlH₄</p>

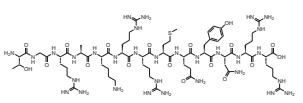
Product Number	Product	Order number / Unit
808	<p>Tetrabutylammonium Hydrogen Carbonate (0.075 M) - Aqueous solution, stabilized with ethanol</p> <p>Tested for sterility and bacterial endotoxins according to Ph. Eur.</p> <p>Manufactured according to GMP requirements for APIs (ICH Q7)</p> <p>$C_{17}H_{37}NO_3$ Molar Mass: 303.48 [17351-62-1]</p> <p>Clear colourless liquid packaged in PP vials with crimp cap.</p> <p>Purity:</p> <p>Certificates: CoA; pH; Assay; bacterial endotoxines/LAL test; test for sterility</p> <p>Chemical Name: CA index name: Tetrabutylammonium bicarbonate</p> <p>Synonyms: Tetrabutylammonium hydrogen carbonate solution</p> <p>Literature: TBA solution is designed as an reagent for the synthesis of [^{18}F]FDG using the GE TRACERlab FXFDG Synthesizer(r) module (alkaline or acidic TBA method).</p>	<p>808.0000.6: 0.6 ml per vial Please inquire for customized filling and bulk quantities.</p> 

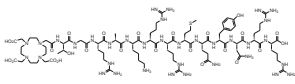
Product Number	Product	Order number / Unit
831	<p>Pentadecylmagnesium bromide 0.5 M in diethyl ether Reagent for synthesis of [^{11}C]palmitic acid</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere possible, but not recommended.</p> <p>$C_{15}H_{31}BrMg$ Molar Mass: 315.62 [78887-70-4]</p> <p>Yellow-brown liquid, may contain some crystalline particles packaged in amber glass vials (1 ml) sealed with teflon-faced rubber stoppers and tear-off crimp caps containing 1 ml of 0.5 M $C_{15}H_{31}BrMg$ solution in diethylether.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; Purity; Assay (molarity)</p> <p>Chemical Name: CA index names: Magnesium, bromopentadecyl-; Pentadecane, magnesium complex</p> <p>Synonyms: Pentadecylmagnesium bromide Grignard in diethylether</p> <p>Literature: Zielinski F. et al. Synthesis of high purity ^{11}C labeled palmitic acid for measurement of regional myocardial perfusion and metabolism. Int. J. Nucl. Med. Biol. 1984, 11, 121-128. Padgett H.C. et al. 1-^{11}C]palmitic acid: improved radio-pharmaceutical preparation. Int. J. Appl. Radiat. Isot. 1982, 33, 1471-1472. Buckman B.O. et al. Synthesis and tissue biodistribution of [ω-^{11}C]palmitic acid. A novel PET imaging agent for cardiac fatty acid metabolism. J. Med. Chem. 1994, 37, 2481-2485.</p>	<p>831.0001: 1 ml per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
832	<p>Lithium aluminium hydride (0.1 M in THF) 0.1 M solution in dried tetrahydrofuran with controlled ¹²C-background</p> <p>Manufactured and packaged in argon atmosphere. Repeated extractions from vial in argon atmosphere does not affect product quality.</p> <p>LiAlH₄ Molar Mass: 37.94 [16853-85-3]</p> <p>Clear colourless liquid packaged in 10 ml clear glass vials sealed with teflon-faced rubber stoppers and tear-off crimp caps.</p> <p>Purity: ≤ 5 ppm Carbonate ≤ 50 ppm Methanol</p> <p>Certificates: CoA; Background ¹²C ([¹²C]Carbonate determined as [¹²C]CO₂ and [¹²C]Methanol as methyl acetate by gas chromatography)</p> <p>Chemical Name: CA index name: lithium aluminium hydride</p> <p>Synonyms: Aluminium lithium tetrahydride; Lithium alanate; Lithium aluminium tetrahydride; Lithium tetrahydroaluminate</p> <p>Literature: Harada N. et al. Measurement of the carbon source which is responsible for dilution in Carbon-11 labelling reactions. J. Appl. Radiat. Isot. 1993, 44, 629.</p> <p>Marazano C. et al. Synthesis of [¹¹C]formaldehyde. Int. J. Appl. Radiat. Isot. 1977, 28, 49.</p> <p>Iwata R. et al. Comparative study of specific activity of (¹¹C)methyl iodide. A search for the source of carrier carbon. J. Appl. Radiat. Isot. 1988, 39, 1.</p>	<p>832.0002.5: 2.5 ml per vial 832.0005: 5 ml per vial Please inquire for customized filling and bulk quantities.</p> <p>LiAlH₄</p>

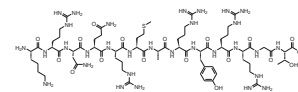
Product Number	Product	Order number / Unit
9500	<p>Fmoc-Lys(ivDde)-OH</p> <p>Amino acid building block for peptide synthesis</p> <p>ivDde: (4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)-3-methylbutyl</p> <p>C₃₄H₄₂N₂O₆ Molar Mass: 574.71</p> <p>[204777-78-6]</p> <p>Colourless to off-white solid packaged in dark glass vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum; HPLC</p> <p>Chemical Name: Sequence: Fmoc-Lys(ivDde)-OH</p> <p>Synonymes: L-Lysine, N6-[1-(4,4-dimethyl-2,6-dioxocyclohexylidene)-3-methylbutyl]-N2-[9H-fluoren-9-yl(methoxy)carbonyl]-; N-α-Fmoc-N-ε-1-(4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)-3-methylbutyl-L-Lysine; 6-[1-(4,4-Dimethyl-2,6-dioxo-cyclohexylidene)-3-methylbutylamino]-2-(9H-fluoren-9-ylmethoxycarbonylamino)-hexanoic acid</p> <p>Literature: Bycroft B.W. et al. A Novel Lysine-protecting Procedure for Continuous Flow Solid Phase Synthesis of Branched Peptides. J. Chem. Soc., Chem. Commun. 1993, 778-779.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

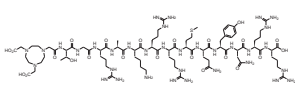
Product Number	Product	Order number / Unit
9510	<p>PMPA</p> <p>Inhibitor of glutamate carboxypeptidase 2 (GCP II/N-acetylated α-linked dipeptidase/NAALADase)</p> <p>$C_6H_{11}O_7P$ Molar Mass: 226.12</p> <p>[173039-10-6]</p> <p>colourless highly viscous oil packaged in dark glass vials.</p> <p>Bitte Patentschutz klären.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; 1H NMR spectrum</p> <p>Chemical Name: 2-(Phosphonomethyl)pentane-1,5-dioic acid</p> <p>Synonymes: PMPA (NAALADase inhibitor)</p> <p>Literature: Jackson et al. Design, synthesis, and biological activity of a potent inhibitor of the neuropeptidase N-acetylated α-linked acidic dipeptidase. J.Med.Chem. 1996, 39, 619</p> <p>Slusher et al. Selective inhibition of NAALADase, which converts NAAG to glutamate, reduces ischemic brain injury. Nat.Med. 1999, 5, 1396</p> <p>Thomas et al. NAALADase inhibition protects motor neurons against chronic glutamate toxicity. Eur.J.Pharmacol. 2003, 471, 177</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

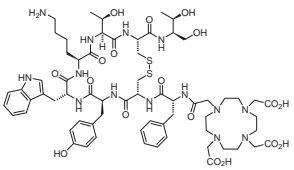
Product Number	Product	Order number / Unit
9600	<p>Ubiquicidin (29-41) acetate</p> <p>Precursor for [^{99m}Tc]Ubiquicidin (29-41)</p> <p>Infection-Imaging Agent</p> <p>$C_{68}H_{121}N_{31}O_{18}S$ Molar Mass: 1691.95</p> <p>[216867-99-1] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in dark glass screw cap vials.</p> <p>Purity: \geq 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-Thr-Gly-Arg-Ala-Lys-Arg-Arg-Met-Gln-Tyr-Asn-Arg-Arg-OH Supplied as acetate salt</p> <p>Synonymes: (29-41)-Ubiquicidin</p> <p>Literature: Welling M.M. et al. Radiochemical and biological characteristics of ^{99m}Tc-UBI 29-41 for imaging of bacterial infections. Nucl. Med. Biol. 2002, 29, 413-422.</p> <p>Akhtar M.S. et al. Antimicrobial Peptide ^{99m}Tc-Ubiquicidin 29-41 as Human Infection-Imaging Agent: Clinical Trial. J. Nucl. Med. 2005, 46, 567-573.</p>	<p>9600.0010: 10 mg per vial</p> <p>9600.0020: 20 mg per vial</p> <p>9600.0100: 100 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

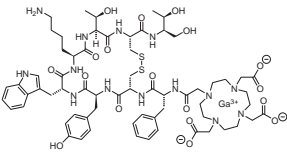
Product Number	Product	Order number / Unit
9601	<p>DOTA-Ubiquicidin (29-41) acetate Precursor for Infection Imaging Agents</p> <p>$C_{84}H_{147}N_{35}O_{25}S$ Molar Mass: 2079.4 (net peptide) CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: > 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA-Thr-Gly-Arg-Ala-Lys-Arg-Arg-Met-Gln-Tyr-Asn-Arg-Arg-OH, supplied as acetate salt</p> <p>Synonymes: n/a Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

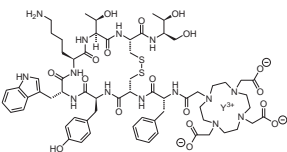
Product Number	Product	Order number / Unit
9602	Scrambled Ubiquitin (29-41) $C_{68}H_{121}N_{31}O_{18}S$ Molar Mass: 1692.95 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: H-Lys-Arg-Asn-Gln-Arg-Met-Ala-Arg-Tyr-Arg-Arg-Gly-Thr-OH Synonyms: (29-41)-Ubiquitin, scrambled; L-Threonine, L-lysyl-L-arginyl-L-asparaginyl-L-glutaminyl-L-arginyl-L-methionyl- L-alanyl-L-arginyl-L-tyrosyl-L-arginyl-L-arginylglycyl- Literature: Welling M.M. et al. Radiochemical and biological characteristics of ^{99m}Tc -UBI 29-41 for imaging of bacterial infections. Nucl. Med. Biol. 2002, 29, 413-422.	9602.0001: 1 mg per vial 9602.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

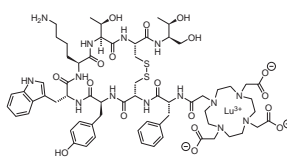


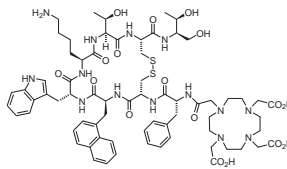
Product Number	Product	Order number / Unit
9603	<p>NOTA-Ubiquicidin (29-41) acetate Precursor for Infection Imaging Agents</p> <p>$C_{80}H_{140}N_{34}O_{23}S \cdot x CH_3CO_2H$ Molar Mass: 1978.25 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white freeze-dried solid packaged in plastic screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: NOTA-Thr-Gly-Arg-Ala-Lys-Arg-Arg-Met-Gln-Tyr-Asn-Arg-Arg-OH NOTA = 2-[4,7-Bis-(carboxymethyl)-[1,4,7]triazonan-1-yl]-acetyl</p> <p>Synonyms: n/a</p> <p>Literature: Vilche M. et al. ^{68}Ga-NOTA-UBI-29-41 as a PET Tracer for Detection of Bacterial Infection. J. Nucl. Med. 2016, 57, 622-627.</p>	<p>9603.0002: 2 mg per vial Please inquire for customized filling and bulk quantities.</p> 

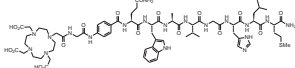
Product Number	Product	Order number / Unit
9702	<p>DOTATOC (GMP) Precursor for radiolabelled DOTA-TOC Ligand for somatostatin receptors</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{65}H_{92}N_{14}O_{18}S_2$ Molar Mass: 1421.7 (net peptide) [204318-14-9]</p> <p>White to off-white solid packaged in plastic vials</p> <p>Purity: $\geq 98\%$</p> <p>Certificates: CoA with HPLC (identity, purity, assay); GC (residual Solvents, water content, counter-ion); microbiology test</p> <p>Chemical Name: Sequence: DOTA-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide</p> <p>Synonyms: DOTA-TOC acetate; DOTA-[Tyr³]-octreotide; Edotreotide; CA index name: L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic(2→7)-disulfide, supplied as acetate salt</p> <p>Literature: Forrer F. et al. Targeted radionuclide therapy with ^{90}Y-DOTATOC in patients with neuroendocrine tumors. Anticancer Res. 2006, 26, 703-707. Koukouraki S. et al. Evaluation of the pharmacokinetics of (^{68}Ga)-DOTATOC in patients with metastatic neuroendocrine tumours scheduled for (^{90}Y)-DOTATOC therapy. Eur. J. Nucl. Med. Mol. Imaging 2006, 33, 460-466.</p>	<p>Please contact ITG Isotope Technologies Garching GmbH Sales Dept. Lichtenbergstr. 1 D-85748 Garching, Germany Phone +49 89 289 13908 Fax +49 89 289 13929 Please inquire for customized filling and bulk quantities.</p> 

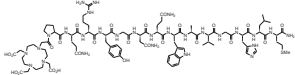
Product Number	Product	Order number / Unit
9703	Ga-DOTA-TOC acetate $C_{65}H_{89}GaN_{14}O_{18}S_2$ Molar Mass: 1486.52 (net peptide) [293295-70-2] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA(Ga)-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide. Synonymes: natGa-Edotreotide; natGa-SMT487; natGa-DOTA-[Tyr ³]octreotide; Gallium, [N-[[4,7,10-tris[(carboxy- κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl- κ N1, κ N4, κ N7, κ N10]acetyl- κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide(2 \rightarrow 7)-disulfidato(3-)]- Literature: no literature reference available	Please inquire for customized filling and bulk quantities. 

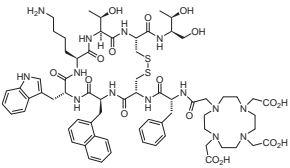
Product Number	Product	Order number / Unit
9704	Y-DOTA-TOC Reference Standard for 90Y-DOTA-TOC $C_{65}H_{89}N_{14}O_{18}S_2Y$ Molar Mass: 1507.52 (net peptide) [293295-66-6] Colourless to off-white solid packaged in dark glass screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA(Y)-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide. Synonymes: natY-Edotreotide; natY-SMT487; natY-DOTA-[Tyr ³]octreotide; Yttrium, [N-[[4,7,10-tris[(carboxy- κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl- κ N1, κ N4, κ N7, κ N10]acetyl- κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic (2 \rightarrow 7)-disulfidato(3-)]- Literature: Villard L. et al. Cohort study of somatostatin-based radiopeptide therapy with [(90)Y-DOTA]-TOC versus [(90)Y-DOTA]-TOC plus [(177)Lu-DOTA]-TOC in neuroendocrine cancers. J. Clin. Oncol. 2012, 30, 1100-1106.	Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
9705	Lu-DOTA-TOC Reference standard for ^{177}Lu-DOTA-TOC $\text{C}_{65}\text{H}_{89}\text{LuN}_{14}\text{O}_{18}\text{S}_2$ Molar Mass: 1593.58 (net peptide) [321835-55-6] (^{177}Lu)-DOTA-TOC) Colourless to off-white solid packaged in dark glass screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA(Lu)-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide. Synonyms: natLu-Edotreotide; natLu-SMT487; natLu-DOTA-[Tyr ³]octreotide; Lutetium-177Lu, [N-[2-[4,7,10-tris[(carboxy- κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl]acetyl- κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic(2 \rightarrow 7)-disulfidato(3-)]-; Lutetium-177Lu, [N-[[4,7,10-tris[(carboxy- κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl]acetyl- κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-L-cysteinamide cyclic(2 \rightarrow 7)-disulfidato(3-)]- Literature: Villard L. et al. Cohort study of somatostatin-based radiopeptide therapy with [(90)Y-DOTA]-TOC versus [(90)Y-DOTA]-TOC plus [(177)Lu-DOTA]-TOC in neuroendocrine cancers. J. Clin. Oncol. 2012, 30, 1100-1106.	Please inquire for customized filling and bulk quantities. 

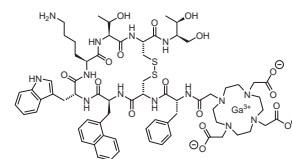
Product Number	Product	Order number / Unit
9712	DOTA-NOC acetate Precursor for radiolabelled DOTA-NOC Ligand for somatostatin receptors $\text{C}_{69}\text{H}_{94}\text{N}_{14}\text{O}_{17}\text{S}_2$ Molar Mass: 1455.7 [619300-53-7] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA-D-Phe-Cys-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Cys ^{2,7} DOTA = N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- Nal = 3-(1-naphthalenyl)-L-alanyl Supplied as acetate salt Synonyms: DOTA-[Nal ³]-octreotide; CA index name: L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2 \rightarrow 7)-disulfide Literature: Wild D. et al. ^{68}Ga -DOTANOC: a first compound for PET imaging with high affinity for somatostatin receptor subtypes 2 and 5. Eur.J. Nucl. Med. Mol. Imaging 2005, 32, 724. Wild D. et al. DOTA-NOC, a high-affinity ligand of somatostatin receptor subtypes 2, 3 and 5 for labeling with various radiometals. Eur. J. Nucl. Med. Mol. Imaging 2003, 30, 1338-1347.	9712.0001: 1 mg per vial 9712.0010: 10 mg per vial Please inquire for customized filling and bulk quantities. 

Product Number	Product	Order number / Unit
9714	<p>AMBA acetate</p> <p>$C_{68}H_{99}N_{19}O_{18}S$ Molar Mass: 1502.70</p> <p>[721937-56-0] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 97\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: DOTA-Gly-4-Abz-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH₂ DOTA = N-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- 4-Abz = 4-aminobenzoyl Supplied as acetate salt</p> <p>Synonyms: CA index name: L-Methioninamide, N-[2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]glycyl-4-aminobenzoyl-L-glutaminyl-L-tryptophyl-L-alanyl-L-valylglycyl-L-histidyl-L-leucyl-</p> <p>Literature: Chen J. et al. Synthesis, stabilization and formulation of [¹⁷⁷Lu]Lu-AMBA, a systemic radiotherapeutic agent for Gastrin Releasing Peptide receptor positive tumors. Appl Radiat Isot. 2008, 66, 497-505. Waser B. et al. Selective in vitro targeting of GRP and NMB receptors in human tumours with the new bombesin tracer ¹⁷⁷Lu-AMBA. Eur. J. Nucl. Med. Mol. Imaging. 2007, 34, 95-100. Lantry L.E. et al. ¹⁷⁷Lu-AMBA: Synthesis and characterization of a selective ¹⁷⁷Lu-labeled GRP-R agonist for systemic radiotherapy of prostate cancer. J. Nucl. Med. 2006, 47, 1144-52. Nunn A.D. et al. Preclinical evaluation of ¹⁷⁷Lu-AMBA, a radiolabelled peptide for systemic radiotherapy and imaging of prostate cancer by targeting gastrin releasing peptide receptors. Eur. J. Cancer Suppl. 2004, 2, 89.</p>	<p>9714.0001: 1 mg per vial 9714.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

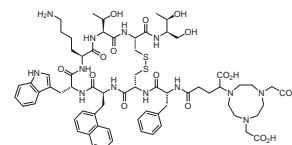
Product Number	Product	Order number / Unit
9715	<p>DOTA-[Pro¹,Tyr⁴]bombesin (1-14) Precursor for radiolabelled DOTA-[Pro¹,Tyr⁴]bombesin (1-14)</p> <p>C₉₀H₁₃₆N₂₈O₂₅S< Molar Mass: 2042.28 [593287-40-2] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: DOTA-Pro-Gln-Arg-Tyr-Gly-Asn-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH₂ DOTA = [4,7,10-Tris-(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]-acetyl Supplied as acetate salt</p> <p>Synonymes: Bombesin, 1-[1-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-proline]-4-L-tyrosine-; MP2346; DOTA-[P¹, Y⁴]BBN(1-14); CA index name: Bombesin, 1-[1-[2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-proline]-4-L-tyrosine-</p> <p>Literature: Biddlecombe G.B. et al. Molecular Imaging of Gastrin-Releasing Peptide Receptor-Positive Tumors in Mice Using ⁶⁴Cu- and ⁸⁶Y-DOTA-[Pro¹,Tyr⁴]-Bombesin(1-14). Bioconjug Chem. 2007, 18, 724-30. Breeman W.A. et al. Evaluation of radiolabelled bombesin analogues for receptor-targeted scintigraphy and radiotherapy. Int J Cancer. 1999, 81, 658-65. Breeman W.A. et al. Preclinical comparison of ¹¹¹In-labeled DTPA- or DOTA-bombesin analogs for receptor targeted scintigraphy and radionuclide therapy. J. Nucl. Med. 2002, 43, 1650-56.</p>	<p>9715.0001: 1 mg per vial 9715.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9716	DOTA-NOC acetate (GMP) Precursor for radiolabelled DOTA-NOC Ligand for somatostatin receptors Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)	9716.0000.06: 60 µg per vial 9716.0000.10: 100 µg per vial 9716.0000.25: 250 µg per vial 9716.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.
	<p>$C_{69}H_{94}N_{14}O_{17}S_2$ Molar Mass: 1455.7</p> <p>[619300-53-7] (net peptide)</p> <p>Colourless to off-white solid packaged in plastic vials</p> <p>Purity: > 98 % (9716.0001) > 97 % (9716.0000.06 9716.0000.10 9716.0000.25)</p> <p>Certificates: CoA with ESI-MS (identity); HPLC (purity); GC (residual solvents, acetate content, water content); heavy metal content (ICP-MS)</p> <p>Chemical Name: Sequence: DOTA-D-Phe-Cys-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Cys^{2,7} DOTA = N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- Nal = 3-(1-naphthalenyl)-L-alanyl Supplied as acetate salt</p> <p>Synonymes: DOTA-[Nal³]-octreotide; CA index name: L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide</p> <p>Literature: Same as product number 9712.</p>	

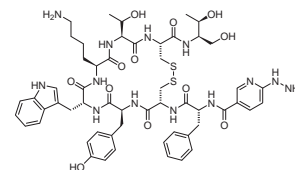
Product Number	Product	Order number / Unit
9717	Ga-DOTA-NOC Reference standard for [⁶⁸Ga]DOTA-NOC $C_{69}H_{91}GaN_{14}O_{17}S_2$ Molar Mass: 1522.40 [1027785-95-0] [1040397-47-4] [⁶⁸ Ga]DOTA-NOC Colourless freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA(Ga)-D-Phe-Cys-1-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Synonyms: Ga-DOTANOC; CA index name: Gallate(1-), [N-[[[4,7,10-tris[(carboxy-κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl-κ N1,κ N4,κ N7,κ N10]acetyl-κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl- L-lysyl-L-threonyl-L-cysteinyl-L-threonine cyclic (2→7)-disulfidato(4-)]- Literature: Wild D. et al. ⁶⁸ Ga-DOTANOC: a first compound for PET imaging with high affinity for somatostatin receptor subtypes 2 and 5. Eur.J. Nucl. Med. Mol. Imaging 2005, 32, 724.	9717.0001: 1 mg per vial 9717.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



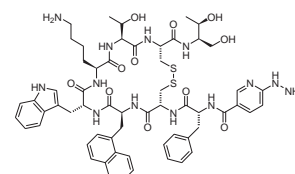
Product Number	Product	Order number / Unit
9718	NODAGA-NOC acetate Precursor for radiolabelled peptides $C_{68}H_{91}N_{13}O_{17}S_2$ Molar Mass: 1426.66 CAS-RN not yet assigned Colourless freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: NODAGA-D-Phe-Cys-1-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Synonyms: NODAGA-NOC acetate salt; L-Threonine, N-[[[4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]acetyl]- D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D- tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (2→7)-disulfide Literature: no literature reference available	9718.0001: 1 mg per vial 9718.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

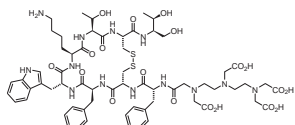


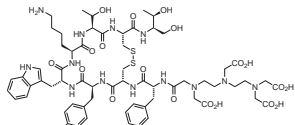
Product Number	Product	Order number / Unit
9721	HYNIC-TOC trifluoroacetate Precursor for [^{99m}Tc]HYNIC-TOC $C_{55}H_{71}N_{13}O_{12}S_2$ Molar Mass: 1170.40 [257943-19-4] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: HYNIC-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide HYNIC = residue of 6-Hydrazinopyridine-3-carboxylic acid Supplied as trifluoroacetate salt Synonyms: HYNIC-[Tyr ³] Octreotide; CA index name: L-Cysteinamide, N-[(6-hydrazinyl-3-pyridinyl)carbonyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide Literature: Decristoforo C. et al. ^{99m} Tc-EDDA/HYNIC-TOC: a new ^{99m} Tc-labelled radiopharmaceutical for imaging somatostatin receptor-positive tumours; first clinical results and intra-patient comparison with ¹¹¹ In-labelled octreotide derivatives. Eur. J. Nucl. Med. 2000, 27, 1318-1325. Decristoforo C. et al. ^{99m} Tc-HYNIC-[Tyr ³]-octreotide for imaging somatostatin-receptor-positive tumors: preclinical evaluation and comparison with ¹¹¹ In-octreotide. J. Nucl. Med. 2000, 41, 1114-1119. Czepczynski, R. et al. Somatostatin receptor scintigraphy using ^{99m} Tc-EDDA/HYNIC-TOC in patients with medullary thyroid carcinoma. Eur J. Nucl. Med. Mol. Imaging. 2007, 34, 1635-45.	9720.0001: 1 mg per vial 9720.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

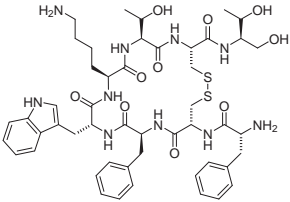


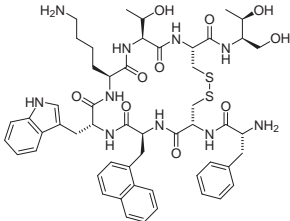
Product Number	Product	Order number / Unit
9730	HYNIC-NOC trifluoroacetate Precursor for [^{99m}Tc]HYNIC-NOC $C_{59}H_{73}N_{13}O_{11}S_2$ Molar Mass: 1204.42 CAS-RN not yet assigned Colourless freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: HYNIC-D-Phe-Cys-1-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Synonyms: L-Cysteinamide, N-[(6-hydrazino-3-pyridinyl)carbonyl]-D-phenylalanyl-L-cysteinyl-L-(1-naphthyl)alanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide; HYNIC-[1-Nal ³] Octreotide Literature: no literature reference available	9730.0001: 1 mg per vial 9730.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

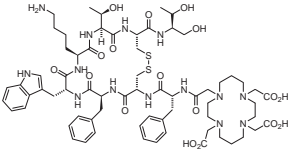


Product Number	Product	Order number / Unit
9740	<p>Pentetreotide trifluoroacetate Precursor for radiolabelled Pentetreotide Ligand for somatostatin receptors $C_{63}H_{87}N_{13}O_{19}S_2$ Molar Mass: 1394.57 [138661-02-6] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DTPA-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide DTPA = residue of N-diethylentriamine-N,N,N',N'',N'''-pentaacetic acid Supplied as trifluoroacetate salt</p> <p>Synonyms: DTPA-octreotide; DTPA-SMS; SDZ 215-811; Pentetreotide; CA index name: L-Cysteinamide, N-[2-[[2-bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl]-N-(carboxymethyl)glycyl-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (3→8)-disulfide</p> <p>Literature: Myssiorek D. et al. ^{111}In pentetreotide imaging in the evaluation of head and neck tumors. <i>Laryngoscope</i> 2005, 115, 1707-1716. Rambaldi P.F. et al. The present and future role of ^{111}In pentetreotide in the PET era. <i>Q. J. Nucl. Med. Mol. Imaging</i>. 2005, 49, 225-235.</p>	<p>9740.0001: 1 mg per vial 9740.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

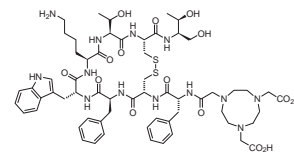
Product Number	Product	Order number / Unit
9744	<p>DTPA-TOC trifluoroacetate Precursor for radiolabelled DTPA-TOC Ligand for somatostatin receptors $C_{63}H_{87}N_{13}O_{20}S_2$ Molar Mass: 1410.57 [147790-81-6] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DTPA-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide</p> <p>Synonyms: 1,2-Dithia-5,8,11,14,17-pentaazacycloeicosane, cyclic peptide deriv.; CA index name: L-Cysteinamide, N-[2-[[2-bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl]-N-(carboxymethyl)glycyl-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (3→8)-disulfide</p> <p>Literature: De Jong M. et al. Pre-clinical comparison of [DTPA0] octreotide, [DTPA0,Tyr³] octreotide and [DOTA0,Tyr³] octreotide as carriers for somatostatin receptor-targeted scintigraphy and radionuclide therapy. <i>Int. J. Cancer</i> 1998, 75, 406-411.</p>	<p>9744.0001: 1 mg per vial 9744.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9750	<p>Octreotide acetate</p> <p>Potent somatostatin analog</p> <p>$C_{49}H_{66}N_{10}O_{10}S_2$ Molar Mass: 1019.24</p> <p>[79517-01-4] [83150-76-9] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 98\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Supplied as acetate salt</p> <p>Synonyms: Octreotide acetate; Sandostatin; Sandostatin LAR; SMS 201-995ac; CA index name: L-Cysteinamide, D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide, acetate (salt)</p> <p>Literature: Yumi K. et al. Direct effects of somatostatin analog octreotide on insulin-like growth factor-I in the arterial wall. Lab Invest. 1997, 76, 329. Okamoto E. et al. Effects of octreotide, a somatostatin analogue, on gastric function evaluated by real-time ultrasonography. Aliment Pharmacol Ther. 1997, 11, 177.</p>	<p>9750.0001: 1 mg per vial 9750.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

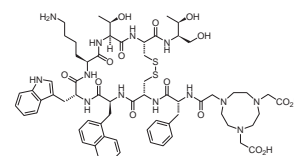
Product Number	Product	Order number / Unit
9752	<p>[NaI³]Octreotide acetate</p> <p>Potent somatostatin analog</p> <p>$C_{53}H_{68}N_{10}O_{10}S_2$ Molar Mass: 1069.30</p> <p>[848820-27-9] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-Phe-Cys-1-Nal-D-Trp-Lys-Thr-Cys-Thr-ol, cyclic disulfide</p> <p>Synonyms: NOC acetate; CA index name: L-Cysteinamide, D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide</p> <p>Literature: no literature reference available</p>	<p>9752.0001: 1 mg per vial 9752.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

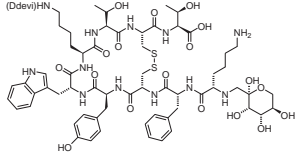
Product Number	Product	Order number / Unit
9760	<p>TETA-Octreotide acetate Precursor for radiolabelled TETA-Octreotide Ligand for somatostatin receptors $C_{67}H_{96}N_{14}O_{17}S_2$ Molar Mass: 1433.70 [226084-96-4] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 97\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: TETA-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide TETA = (4,8,11-Triscarboxymethyl-1,4,8,11-tetraaza-cyclotetradec-1-yl)-acetyl Supplied as acetate salt</p> <p>Synonyms: TETA-Octreotide; TETA-OC; CA index name: L-Cysteinamide, N-[[[4,8,11-tris(carboxymethyl)-1,4,8,11-tetraazacyclotetradec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide</p> <p>Literature: Anderson C.J. et al. ^{64}Cu-TETA-octreotide as a PET imaging agent for patients with neuroendocrine tumors. J Nucl Med. 2001, 42, 213-21. Lewis J.S. et al. Radiotherapy and dosimetry of ^{64}Cu-TETA-Tyr³-octreotate in a somatostatin receptor-positive, tumor-bearing rat model. Clin Cancer Res. 1999, 5, 3608-16. Anderson C.J. et al. Radiotherapy, toxicity and dosimetry of copper-64-TETA-octreotide in tumor-bearing rats. J Nucl Med. 1998, 39, 1944-51.</p>	<p>9760.0001: 1 mg per vial 9760.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

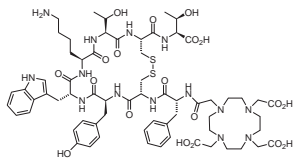
Product Number	Product	Order number / Unit
9762	NOTA-Octreotide trifluoroacetate Precursor for radiolabelled NOTA-Octreotide $C_{61}H_{85}N_{13}O_{15}S_2$ Molar Mass: 1304.50 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: NOTA-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Synonyms: NOTA-octreotide; IMP466 Literature: Laverman P. et al. A Novel Facile Method of Labeling Octreotide with ^{18}F -Fluorine. J. Nucl. Med. 2010, 51, 454-461.	9762.0001: 1 mg per vial 9762.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

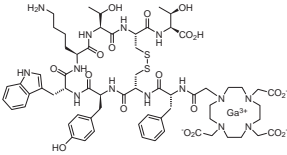
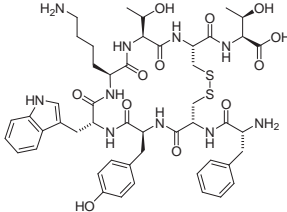


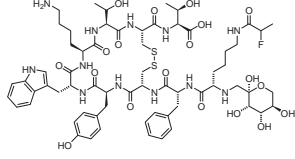
Product Number	Product	Order number / Unit
9765	NOTA-NOC acetate Precursor for radiometal-labelled NOTA-[1-Nal3]octreotide. $C_{65}H_{87}N_{13}O_{15}S_2$ Molar Mass: 1354.6 (net peptide) CAS-RN not yet assigned Colourless to off-white solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: NOTA-D-Phe-Cys-1-Nal-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Synonyms: L-Cysteinamide, N-[[4,7-bis(carboxymethyl)-1,4,7-triazonan-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide, acetate salt Literature: no literature reference available	9765.0001: 1 mg per vial 9765.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

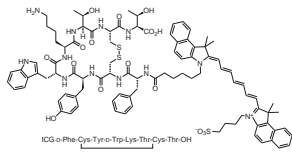
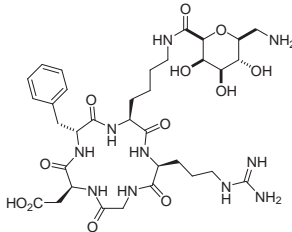


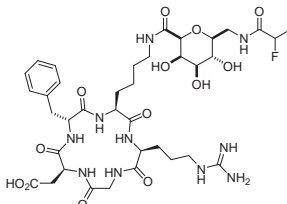
Product Number	Product	Order number / Unit
9771	<p>Gluc-[Lys⁰,Lys(ivDde)⁵]-TOCA Precursor for Gluc-Lys([¹⁸F]FP)-TOCA</p> <p>C₇₄H₁₀₄N₁₂O₂₀S₂ Molar Mass: 1545.82 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: (1-deoxy-D-fructosyl)-Lys-D-Phe-Cys-Tyr-D-Trp-Lys(ivDde)-Thr-Cys-Thr-OH, cyclic disulfide</p> <p>Synonyms: (N^α-(1-deoxy-D-fructosyl)-[Lys⁰-Tyr³-Lys(Dde)⁵]-octreotate; Precursor for [¹⁸F]FP-Gluc-TOCA; N-α-(1-deoxy-D-fructosyl)-KfCYw-K(ivDde)-TCT-OH, cyclic C^{2,7}; Gluc-Lys([¹⁸F]FP)-TOCA = N^α-(1-deoxy-D-fructosyl)-N^ε-(2-[¹⁸F]fluoropropionyl)-Lys⁰-Tyr³-octreotate</p> <p>Literature: Meisetschlaeger G. et al. Gluc-Lys([¹⁸F]FP)-TOCA PET in Patients with SSTR-Positive Tumors: Biodistribution and Diagnostic Evaluation Compared with [¹¹¹In]DTPA-Octreotide. J. Nucl. Med. 2006, 47, 566-573. Vaidyanathan G. et al. Synthesis and Evaluation of Glycosylated Octreotate Analogues Labeled with Radioiodine and ²¹¹At via a Tin Precursor. Bioconjugate Chem. 2006, 17, 195-203.</p>	<p>9771.0001: 1 mg per vial 9771.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

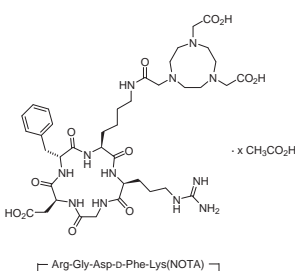
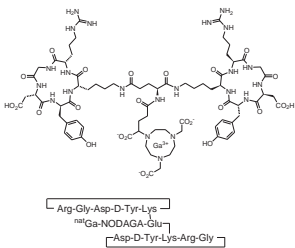
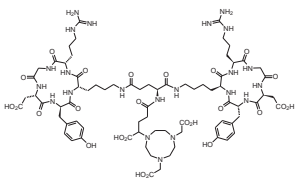
Product Number	Product	Order number / Unit
9772	<p>DOTA-TATE acetate (GMP) Precursor for radiolabelled DOTA-[Tyr³]octreotate</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) Sold under license for patent EP1872800 C₆₅H₉₀N₁₄O₁₉S₂ Molar Mass: 1435.63 [177943-89-4] Colourless to off-white solid packaged in plastic vials</p> <p>Purity: > 97 % (9772.0001) > 95 % (9772.0000.05, 9772.0000.10, 9772.0000.25 and 9772.0000.40)</p> <p>Certificates: CoA with ESI-MS (identity); HPLC (purity); GC (residual solvents, acetate content, water content); microbiology test Chemical Name: DOTA-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH, cyclic disulfide DOTA = N-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- Supplied as acetate salt</p> <p>Synonyms: DOTA-[Tyr³]-Octreotate, DOTA-[Tyr³, Thr⁸]-Octreotide</p> <p>Literature: De Jong M. et al. Combination Radionuclide Therapy Using ¹⁷⁷Lu- and ⁹⁰Y-Labeled Somatostatin Analogs. J. Nucl. Med., 2005, 46,135 Valkema R. et al. Long-Term Follow-Up of Renal Function After Peptide Receptor Radiation Therapy with ⁹⁰Y-DOTA⁰,Tyr³-Octreotide and ¹⁷⁷Lu-DOTA⁰,Tyr³-Octreotate. J. Nucl. Med. 2005, 46, 8</p>	<p>9772.0000.05: 50 µg per vial 9772.0000.10: 100 µg per vial 9772.0000.25: 250 µg per vial 9772.0000.40: 400 µg per vial 9772.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9773	<p>Ga-DOTA-TATE Reference standard for [⁶⁸Ga]DOTA-TATE</p> <p>Sold under license for patent EP1872800 $C_{65}H_{87}GaN_{14}O_{19}S_2$ Molar Mass: 1502.32 [777842-51-0] [293295-75-7] [⁶⁸Ga]DOTA-TATE Colourless freeze-dried solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 97 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: CA index name: Gallate(1-), [N-[[4,7,10-tris[(carboxy-κ O)methyl]-1,4,7,10-tetraazacyclododec-1-yl-κ N1,κ N4,κ N7,κ N10]acetyl-κ O]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-L-threonine cyclic (2→7)-disulfidato(4-)]-</p> <p>Synonyms: Ga-DOTATATE; Ga-DOTA-[Tyr³]octreotate</p> <p>Literature: Reubi J.C. and Maecke H.R. Peptide-Based Probes for Cancer Imaging. J. Nucl. Med. 2008, 49, 1735. Fichna J. et al. Synthesis of Target-Specific Radiolabeled Peptides for Diagnostic Imaging. Bioconjugate Chem. 2003, 14, 3.</p>	<p>9773.0001: 1 mg per vial 9773.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
9774	<p>[Tyr³]Octreotate acetate</p> <p>$C_{49}H_{64}N_{10}O_{12}S_2$ Molar Mass: 1049.22 [302794-43-0] (net peptide) Colourless freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH, cyclic disulfide</p> <p>Synonyms: TATE; TOCA; CA index name: L-Threonine, D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (2→7)-disulfide</p> <p>Literature: Petrou C. et al. Synthesis and sst2 binding profiles of new (Tyr³)octreotate analogs. J.Peptide Sci. 2008, 14, 725-730. Spyroulias G.A. et al. 3D solution structure of [Tyr³]octreotate derivatives in DMSO: Structure differentiation of peptide core due to chelate group attachment and biologically active conformation. Med. Chem. 2005, 1, 487-499. Wang Q. et al. Pharmacological properties of hydrophilic and lipophilic derivatives of octreotate. Nucl. Med. Biol. 2004, 31, 21-30.</p>	<p>9774.0001: 1 mg per vial 9774.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

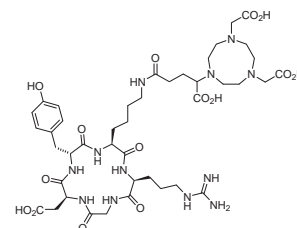
Product Number	Product	Order number / Unit
9778	Gluc-Lys(FP)-TOCA	9778.0001: 1 mg per vial
	Reference standard for Gluc-Lys([¹⁸F]FP)-TOCA	9778.0010: 10 mg per vial
	<p>$C_{77}H_{107}FN_{12}O_{21}S_2$ Molar Mass: 1619.87</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: (1-deoxy-D-fructosyl)-Lys(2-fluoropropionyl)-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH, cyclic disulfide</p> <p>Synonymes: Glc-Lys⁰-fluoropropionyl-TOCA; Glc-Lys⁰-fluoropropionyl-Tyr³-octreotate; [¹⁹F]FP-Gluc-TOCA; N^α-(1-deoxy-D-fructosyl)-N^ε-(2-fluoropropionyl)-[Lys⁰-Tyr³]-octreotate</p> <p>Literature: Meisetschlaeger G. et al. Gluc-Lys([¹⁸F]FP)-TOCA PET in Patients with SSTR-Positive Tumors: Biodistribution and Diagnostic Evaluation Compared with [¹¹¹In]DTPA-Octreotide. J. Nucl. Med. 2006, 47, 566-573. Vaidyanathan G. et al. Synthesis and Evaluation of Glycosylated Octreotate Analogues Labeled with Radioiodine and ²¹¹At via a Tin Precursor. Bioconjugate Chem. 2006, 17, 195-203.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9782	<p>ICG-TATE</p> <p>$C_{94}H_{112}N_{12}O_{16}S_3$ Molar Mass: 1762.16</p> <p>CAS-RN not yet assigned</p> <p>Green solid</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: ICG-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH, cyclic disulfide</p> <p>Synonymes: n/a</p> <p>Literature:</p>	<p>Please inquire for customized filling and bulk quantities.</p>  <p>ICG-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH</p>
Product Number	Product	Order number / Unit
9790	<p>Galacto-RGD</p> <p>Precursor for [^{18}F]Galacto-RGD</p> <p>$C_{34}H_{52}N_{10}O_{12}$ Molar Mass: 792.84</p> <p>[922175-70-0] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: cyclo[RGDfK(galacto)] galacto = (7-amino-2,6-anhydro-7-deoxy-L-glycero-L-galacto-heptonoyl)</p> <p>Synonymes: CA index name: Cyclo[L-arginylglycyl-L-α-aspartyl-D-phenylalanyl-N6-(7-amino-2,6-anhydro-7-deoxy-L-glycero-L-galacto-heptonoyl)-L-lysyl]</p> <p>Literature: Haubner R. et al. Non-Invasive Visualization of the Activated avb3 Integrin in Cancer Patients by Positron Emission Tomography and [^{18}F]Galacto-RGD. PLoS Medicine 2005, 2, e70. Haubner R. et al. Noninvasive imaging of avb3 integrin expression using 18F-labeled RGD-containing glycopeptide and positron emission tomography. Cancer Res. 2001, 61, 1781-1785. Haubner R. et al. [^{18}F]Galacto-RGD : synthesis, radiolabeling, metabolic stability, and radiation dose estimates. Bioconjugate Chem. 2004, 15, 61-69.</p>	<p>9790.0001: 1 mg per vial 9790.0010: 10 mg per vial 9790.0050: 50 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

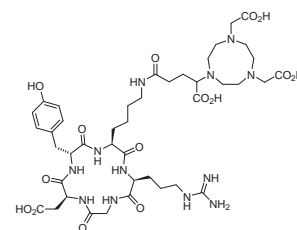
Product Number	Product	Order number / Unit
9800	<p>Fluoropropionyl-Galacto-RGD Reference standard for [¹⁸F]Galacto-RGD</p> <p>C₃₇H₅₅FN₁₀O₁₃ Molar Mass: 866.89 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: cyclo[RGDfK([¹⁹F]galacto)] [¹⁹F]galacto = (2,6-anhydro-7-deoxy-7-[[2-fluoro-¹⁹F)-1-oxopropyl]amino]-L-glycero-L-galacto-heptonoyl</p> <p>Synonyms: Cyclo[L-arginylglycyl-L-α-aspartyl-D-phenylalanyl-N6-[2,6-anhydro-7-deoxy-7-[[2-fluoro-1-oxopropyl]amino]-L-glycero-L-galacto-heptonoyl]-L-lysyl]</p> <p>Literature: Haubner R. et al. Non-Invasive Visualization of the Activated avb3 Integrin in Cancer Patients by Positron Emission Tomography and [¹⁸F]Galacto-RGD. PloS Medicine 2005, 2, e70. Haubner R. et al. Noninvasive imaging of avb3 integrin expression using 18F-labeled RGD-containing glycopeptide and positron emission tomography. Cancer Res. 2001, 61, 1781-1785. Haubner R. et al. [¹⁸F]Galacto-RGD : synthesis, radiolabeling, metabolic stability, and radiation dose estimates. Bioconjugate Chem. 2004, 15, 61-69.</p>	<p>9800.0001: 1 mg per vial 9800.0010: 10 mg per vial 9800.0025: 25 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9802	<p>NOTA-RGDfK acetate Precursor for radiolabelled NOTA-RGDfK.</p> <p>$C_{39}H_{60}N_{12}O_{12} \cdot x CH_3CO_2H$ Molar Mass: 888.97 (net peptide) CAS-RN not yet assigned Colourless to off-white freeze-dried solid screw cap vial (plastic) Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Tyr-Lys(NOTA)-] Synonyms: n/a Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 
9803	<p>Ga-NODAGA-RGD dimer Reference standard for ^{68}Ga-NODAGA-RGD dimer</p> <p>$C_{74}H_{107}GaN_{22}O_{25}$ Molar Mass: 1774.50 (net peptid) CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: natGa-NODAGA-Glu(cyclo[-Arg-Gly-Asp-D-Tyr-Lys-]2 Synonyms: n/a Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 
9804	<p>NODAGA-RGD dimer acetate Precursor for radiolabelled NODAGA-RGD dimer</p> <p>$C_{74}H_{110}N_{22}O_{25}$ Molar Mass: 1707.80 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: NODAGA-Glu(cyclo[-Arg-Gly-Asp-D-Tyr-Lys-]2 Synonyms: Cyclo(L-arginylglycyl-L-α-aspartyl-D-tyrosyl-L-lysyl), N6-([4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]acetyl)-L-glutamoyl]bis- Literature: no literature reference available</p>	<p>9804.0001: 1 mg per vial 9804.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

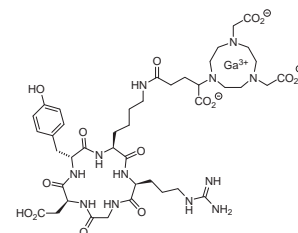
Product Number	Product	Order number / Unit
9805	NODAGA-RGD trifluoroacetate Precursor for radiolabelled RGD peptides $C_{42}H_{64}N_{12}O_{15}$ Molar Mass: 977.03 CAS-RN not yet assigned Colourless to off-white solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Tyr-Lys(NODAGA)-] Synonyms: Cyclo[L-arginylglycyl-L- α -aspartyl-D-tyrosyl-N6-([4,7-bis(carboxymethyl)-1,4,7-triazonan-1-yl]acetyl)]-L-lysyl]; NODAGA-RGD Literature: no literature reference available	9805.0001: 1 mg per vial 9805.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

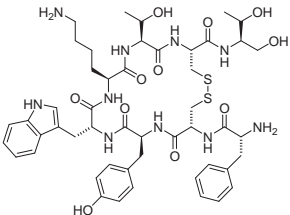


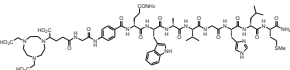
Product Number	Product	Order number / Unit
9806	NODAGA-RGD (GMP) Precursor for radiometal-labelled RGD-peptide. Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19) $C_{42}H_{64}N_{12}O_{15}$ Molar Mass: 977.03 CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass screw cap vials. Purity: $\geq 97\%$ Certificates: CoA with ESI-MS (identity); HPLC (purity); GC (residual solvents, water content) Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Tyr-Lys(NODAGA)-] Synonyms: Cyclo[L-arginylglycyl-L- α -aspartyl-D-tyrosyl-N6-([4,7-bis(carboxymethyl)-1,4,7-triazonan-1-yl]acetyl)]-L-lysyl]; NODAGA-RGD Literature: no literature reference available	9806.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

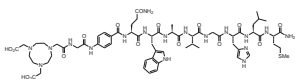


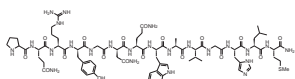
Product Number	Product	Order number / Unit
9807	<p>Ga-NODAGA-RGD</p> <p>Reference standard for ^{68}Ga-NODAGA-RGD</p> <p>$\text{C}_{42}\text{H}_{61}\text{Ga}\text{N}_{12}\text{O}_{15}$ Molar Mass: 1043.7</p> <p>CAS-RN not yet assigned</p> <p>White to off-white powder packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Tyr-Lys[NODAGA(Ga)]]-</p> <p>Synonymes: Cyclo[L-arginylglycyl-L-α-aspartyl-D-tyrosyl-N6-([4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]-4-carboxybutyryl)-L-lysyl], complex with Ga^{3+}</p> <p>Literature: no literature reference available</p>	<p>9807.0001: 1 mg per vial</p> <p>9807.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p>

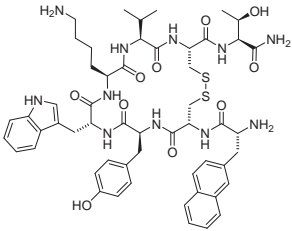


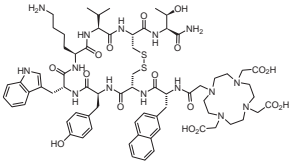
Product Number	Product	Order number / Unit
9810	<p>[Tyr³]Ocreotide acetate Potent somatostatin analog</p> <p>C₄₉H₆₆N₁₀O₁₁S₂ Molar Mass: 1035.24 [103667-46-5] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 97 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr(ol), cyclic disulfide Supplied as acetate salt</p> <p>Synonyms: [Tyr³]-SMS 201-995; CA index name: L-Cysteinamide, D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic(2→7) disulfide</p> <p>Literature: Lamberts S.W.J. et al. The role of somatostatin an its analogs in the diagnosis and treatment of tumors. Endocr. Rev. 1991, 12, 450-482.</p>	<p>9810.0001: 1 mg per vial 9810.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

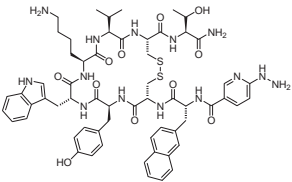
Product Number	Product	Order number / Unit
9814	<p>NODAGA-AMBA trifluoroacetate</p> <p>C₆₇H₉₆N₁₈O₁₈S Molar Mass: 1473.7 (net peptide) CAS-RN not yet assigned Colourless to off-white solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: NODAGA-Gly-4-Abz-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH₂</p> <p>Synonyms: NODAGA-AMBA trifluoroacetate; L-Methioninamide, N-[4-carboxy,4-[4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]-butanoyl]glycyl-4-aminobenzoyl-L-glutamyl-L-tryptophyl-L-alanyl-L-valylglycyl-L-histidyl-L-leucyl-, TFA salt</p> <p>Literature: no literature reference available</p>	<p>9814.0001: 1 mg per vial 9814.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

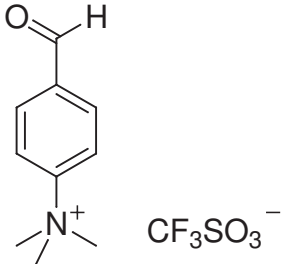
Product Number	Product	Order number / Unit
9815	<p>NOTA-AMBA trifluoroacetate</p> <p>$C_{64}H_{92}N_{18}O_{16}S$ Molar Mass: 1401.6 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: NOTA-Gly-4-Abz-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH₂</p> <p>Synonyms: NOTA-AMBA trifluoroacetate; L-Methioninamide, N-[(4,7-Bis-carboxymethyl-[1,4,7]triazonan-1-yl)-acetyl]glycyl-4-aminobenzoyl-L-glutamyl-L-tryptophyl-L-alanyl-L-valylglycyl-L-histidyl-L-leucyl-, TFA salt</p> <p>Literature: no literature reference available</p>	<p>9815.0001: 1 mg per vial 9815.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

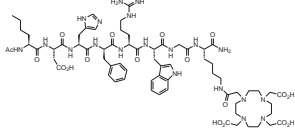
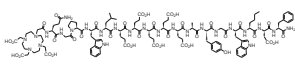
Product Number	Product	Order number / Unit
9816	<p>[Pro¹,Tyr⁴]bombesin (1-14) Synthetic GRP receptor ligand.</p> <p>$C_{74}H_{110}N_{24}O_{18}S \cdot x CF_3CO_2H$ Molar Mass: 1655.9 (net peptide)</p> <p>[832724-21-7] (net peptide)</p> <p>Colourless to off-white solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-Pro-Gln-Arg-Tyr-Gly-Asn-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH₂</p> <p>Synonyms: [Pro¹,Tyr⁴]BN</p> <p>Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9820	<p>Lanreotide trifluoroacetate</p> <p>Potent somatostatin agonist, selective for somatostatin receptor subtype 2</p> <p>$C_{54}H_{69}N_{11}O_{10}S_2$ Molar Mass: 1099.33</p> <p>[108736-35-2] (net peptide)</p> <p>Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 97\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-2-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH₂, cyclic disulfide</p> <p>Synonymes: Angiopeptin; BIM-23014; CA index name: L-Threoninamide, 3-(2-naphthalenyl)-D-alanyl-L-cysteinyl-L-Tyrosyl-D-tryptophyl-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2→7) disulfide, TFA salt</p> <p>Literature: Shimon I. and Melmed S. Structure and function of somatostatin receptors in growth hormone control. J. Endocrinol. 1997, 155, S3-S6. Arnold R. et al. Somatostatin analogues in the treatment of endocrine tumours of the gastrointestinal tract. Expert Opin. Pharmacother. 2002, 3, 643-656.</p>	<p>9820.0001: 1 mg per vial 9820.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

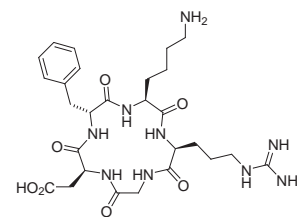
Product Number	Product	Order number / Unit
9831	<p>DOTA-Lanreotide acetate Precursor for radiolabelled DOTA-Lanreotide Ligand for somatostatin receptors $C_{70}H_{95}N_{15}O_{17}S_2$ Molar Mass: 1481.7 [213187-44-1] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA-D-2-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH₂, cyclic disulfide DOTA = N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- Supplied as acetate salt</p> <p>Synonyms: DOTA-BIM-23014; CA index name: L-Threoninamide, 3-(2-naphthalenyl)-N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-alanyl-L-cysteinyl-L-Tyrosyl-D-tryptophyl-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2→7) disulfide</p> <p>Literature: Smith-Jones P.M. et al. DOTA-Lanreotide: a novel somatostatin analog for tumor diagnosis and therapy. <i>Endocrinology</i> 1999, 140, 5136 - 5148. Banerjee S. et al. ¹⁷⁷Lu-DOTA-lanreotide: a novel tracer as a targeted agent for tumor therapy. <i>Nucl. Med. Biol.</i> 2004, 31, 753-759.</p>	<p>9831.0001: 1 mg per vial 9831.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9836	<p>HYNIC-Lanreotide trifluoroacetate Precursor for radiolabelled HYNIC-Lanreotide $C_{60}H_{74}N_{14}O_{11}S_2$ Molar Mass: 1231.45 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: HYNIC-D-Phe-Cys-Tyr-D-Trp-Lys(Boc)-Thr-Cys-Thr-NH₂, cyclic disulfide Synonyms: L-Threoninamide, 3-(2-naphthalenyl)-N-[(6-hydrazinyl-3-pyridinyl)carbonyl]-D-alanyl-L-cysteinyl-L-Tyrosyl-D-tryptophyl-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2→7) disulfide</p> <p>Literature: no literature reference available</p>	<p>9836.0001: 1 mg per vial 9836.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

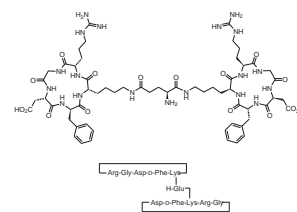
Product Number	Product	Order number / Unit
9850	<p>4-Formyl-N,N,N-Trimethylanilinium triflate Precursor for 4-[¹⁸F]Fluorobenzaldehyde</p> <p>$C_{10}H_{14}NO \cdot CF_3O_3S$ Molar Mass: 313.29 [124915-02-2] Colourless solid packaged in dark glass crimp cap vials (9850.0010) or screw cap vials (9850.0100). Purity: $\geq 95\%$ Certificates: CoA; ¹H and ¹⁹F NMR spectra Chemical Name: CA index names: Benzenaminium, 4-formyl-N,N,N-trimethyl-, 1,1,1-trifluoromethanesulfonate (1:1); Benzenaminium, 4-formyl-N,N,N-trimethyl-, salt with trifluoromethanesulfonic acid (1:1); Methanesulfonic acid, trifluoro-, ion(1-), 4-formyl-N,N,N-trimethylbenzenaminium Synonyms: (4-Formylphenyl)-trimethylammonium trifluoromethanesulfonate; 4-Formyl-N,N,N-trimethylbenzenaminium salt with trifluoromethane-sulfonic acid (1:1); FPTMA Literature: Poethko et al. Two Step Methodology for the High Yield Routine Radiohalogenation of Peptides : ¹⁸F-labeled RGD and Octreotide Analogs. J. Nucl. Med. 2004, 45, 892-902.</p>	<p>9850.0010: 10 mg per vial 9850.0100: 100 mg per vial Please inquire for customized filling and bulk quantities.</p> 

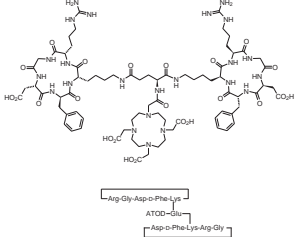
Product Number	Product	Order number / Unit
9855	<p>DOTA-NAPamide trifluoroacetate Precursor for radiolabelled DOTA-NAPamide</p> <p>$C_{68}H_{100}N_{20}O_{18}$ Molar Mass: 1485.65 [935886-72-9] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: Ac-Nle-Asp-His-D-Phe-Arg-Trp-Gly-Lys(DOTA)-NH₂ Synonymes: [Nle⁴,Asp⁵,D-Phe⁷, Lys¹¹(DOTA)]-α-MSH(4-11); CA index name: L-Lysinamide, N-acetyl-L-norleucyl-L-α-aspartyl-L-histidyl-D-phenylalanyl-L-arginyl-L-tryptophylglycyl-N6-[2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-</p> <p>Literature: Froidevaux S. et al. A Gallium-Labeled DOTA-α-Melanocyte-Stimulating Hormone Analog for PET Imaging of Melanoma Metastases. J. Nucl. Med. 2004, 45, 116-123. Froidevaux S. et al. Melanoma Targeting with DOTA-α-Melanocyte-Stimulating Hormone Analogs: Structural Parameters Affecting Tumor Uptake and Kidney Uptake. J. Nucl. Med. 2005, 46, 887-895. Cheng Z. et al. Cu-Labeled α-Melanocyte-Stimulating Hormone Analog for MicroPET Imaging of Melanocortin 1 Receptor Expression. Bioconjugate Chem. 2007, 18, 765-772.</p>	<p>9855.0001: 1 mg per vial 9855.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
9857	<p>DOTA-Sargastrin Precursor for radiometal-labelled DOTA-Sargastrin</p> <p>$C_{114}H_{155}N_{25}O_{38}$ Molar Mass: 2483.6 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DOTA-Gln-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Nle-Asp-Phe-NH₂ Synonymes: n/a Literature: Laverman P. et al. Comparative biodistribution of 12 ¹¹¹In-labelled gastrin/CCK2 receptor-targeting peptides. Eur. J. Nucl. Med. Mol. Imaging 2011, 38, 1410 - 1416 Aloj L. et al. Comparison of the binding and internalization properties of 12 DOTA-coupled and ¹¹¹In-labelled CCK2/gastrin receptor binding peptides: a collaborative project under COST Action BM0607. Eur. J. Nucl. Med. Mol. Imaging 2011, 38, 1417-1425.</p>	<p>9857.0001: 1 mg per vial 9857.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

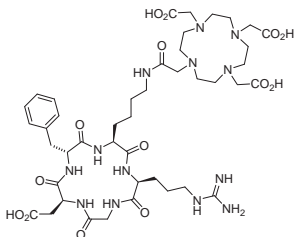
Product Number	Product	Order number / Unit
9860	Cyclo-RGDfK Integrin targeting sequence. $C_{27}H_{41}N_9O_7$ Molar Mass: 603.67 [161552-03-0] Colourless freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Phe-Lys-] Synonyms: Cyclo-RGD Literature: Liu S. Radiolabeled Cyclic RGD Peptides as Integrin $\alpha\nu\beta 3$ Targeted Radiotracers: Maximizing Binding Affinity via Bivalency. Bioconjugate Chem., 2009, 20, 2199-2213.	9860.0001: 1 mg per vial 9860.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



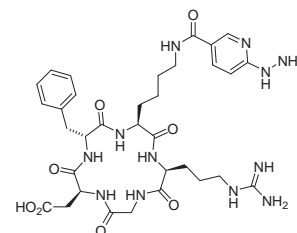
Product Number	Product	Order number / Unit
9861	Cyclo-RGDfK dimer trifluoroacetate Integrin targeting sequence. $C_{59}H_{87}N_{19}O_{16}$ Molar Mass: 1318.44 [250612-47-6] (net peptide) Colourless freeze-dried solid packaged in screw cap vials. Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: CA index name: Cyclo(L-arginylglycyl-L- α -aspartyl-D-phenylalanyl-L-lysyl), 5,5'-L-glutamoylbis- Synonyms: Cyclo-RGD dimer Literature: Liu S. et al. ^{99m}Tc -Labeling of a Hydrazinonicotinamide-Conjugated Vitronectin Receptor Antagonist Useful for Imaging Tumors. Bioconjugate Chem. 2001, 12, 624-629. Liu S. Radiolabeled Cyclic RGD Peptides as Integrin $\alpha\nu\beta 3$ Targeted Radiotracers: Maximizing Binding Affinity via Bivalency. Bioconjugate Chem., 2009, 20, 2199-2213.	9861.0001: 1 mg per vial 9861.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.



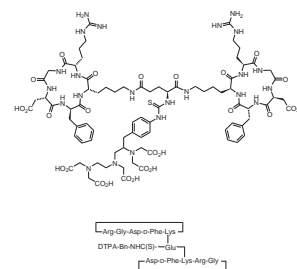
Product Number	Product	Order number / Unit
9862	<p>DOTA-RGDfK dimer acetate Precursor for radiometal-labelled RGD-peptide.</p> <p>$C_{75}H_{113}N_{23}O_{23}$ Molar Mass: 1704.84 [250612-06-7] (net peptide) Colourless freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: CA index name: Cyclo(L-arginylglycyl-L-α-aspartyl-D-phenylalanyl-L-lysyl), 5,5'-[N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-glutamoyl]bis-</p> <p>Synonyms: DOTA-RGD dimer</p> <p>Literature: Mousa S.A. $\alpha\nu$ Integrin Affinity/Specificity and Antiangiogenesis Effect of a Novel Tetraaza Cyclic Peptide Derivative, SU015, in Various Species. J. Cardiovasc. Pharmacol. 2005, 45, 462-467. Janssen M.L. et al. Tumor Targeting with Radiolabeled $\alpha\nu\beta_3$ Integrin Binding Peptides in a Nude Mouse Model. Cancer Res. 2002, 62, 6146-6151.</p>	<p>9862.0001: 1 mg per vial 9862.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

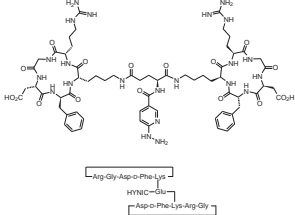
Product Number	Product	Order number / Unit
9863	<p>DOTA-cyclo(RGDfK) acetate Precursor for radiometal-labelled DOTA-RGD.</p> <p>$C_{43}H_{67}N_{13}O_{14}$ Molar Mass: 990.1 (net peptide) [909024-55-1] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $> 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Phe-Lys(DOTA)-]</p> <p>Synonyms: DOTA-RGD</p> <p>Literature: Haukkala J. et al. ^{68}Ga-DOTA-RGD peptide: biodistribution and binding into atherosclerotic plaques in mice. Eur. J. Nucl. Med. Mol. Imaging 2009, 36, 2058-2067. Decristoforo C. et al. ^{68}Ga- and ^{111}In-labelled DOTA-RGD peptides for imaging of $\alpha\nu\beta_3$ integrin expression. Eur. J. Nucl. Med. Mol. Imaging 2008, 35, 1507-1515. Yoshimoto M. et al. In Vivo SPECT Imaging with ^{111}In-DOTA-c(RGDfK) to Detect Early Pancreatic Cancer in a Hamster Pancreatic Carcinogenesis Model. J. Nucl. Med. 2012, 53, 765-771.</p>	<p>9863.0001: 1 mg per vial 9863.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

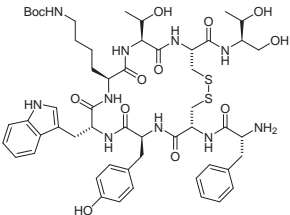
Product Number	Product	Order number / Unit
9864	HYNIC-cyclo(RGDfK) trifluoroacetate Precursor for radiolabelled HYNIC-RGD. $C_{33}H_{46}N_{12}O_8$ Molar Mass: 738.8 (net peptide) [366455-78-9] (net peptide) Colourless to off-white solid packaged in screw cap vials. Purity: > 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: cyclo[-Arg-Gly-Asp-D-Phe-Lys(HYNIC)-] Synonyms: HYNIC-cyclo-RGD; CA index name: Cyclo[L-arginylglycyl-L- α -aspartyl-D-phenylalanyl-N6-[(6-hydrazinyl-3-pyridinyl)carbonyl]-L-lysyl] Literature: no literature reference available	9864.0001: 1 mg per vial 9864.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

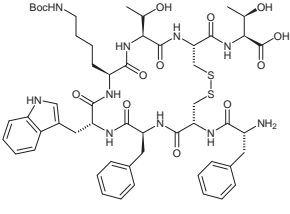


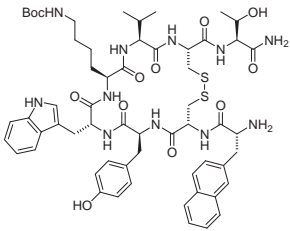
Product Number	Product	Order number / Unit
9866	DTPA-Bn-cyclo(RDGfK) dimer trifluoroacetate Precursor for $\alpha_v\beta_3$ integrin targeted, radiometal-labelled RGD-peptides $C_{81}H_{115}N_{23}O_{26}S$ (net peptide) Molar Mass: 1859.0 (net peptide) [1004322-97-7] White to off-white powder packaged in plastic vials. Purity: \geq 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: DTPA-Bn-cyclo(-Arg-Gly-Asp-D-Phe-Lys-) dimer Synonyms: CA index name: Cyclo(L-arginylglycyl-L- α -aspartyl-D-phenylalanyl-L-lysyl), 5,5'-[N-[[[4-[2-[bis(carboxymethyl)amino]-3-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]propyl]phenyl]amino]thioxomethyl]-L-glutamoyl]bis- Literature: Jia B. et al. Linker Effects on Biological Properties of 111m In-Labeled DTPA Conjugates of a Cyclic RGDfK Dimer. Bioconjugate Chem. 2008, 19: 201-210.	9866.0001: 1 mg per vial 9866.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.

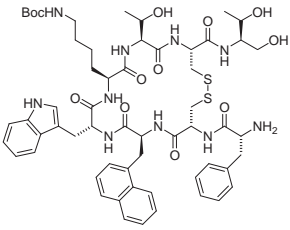


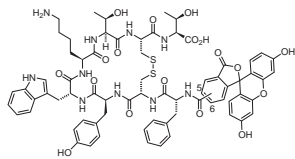
Product Number	Product	Order number / Unit
9867	<p>HYNIC-cyclo(RGDfK) dimer trifluoroacetate Precursor for $\alpha_v\beta_3$ integrin targeted, ^{99m}Tc-labelled RGD-peptides</p> <p>$\text{C}_{65}\text{H}_{92}\text{N}_{22}\text{O}_{17}\text{S}_2$ Molar Mass: 1453.6 (net peptide) [500166-11-0] Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: Hynic-cyclo(-Arg-Gly-Asp-D-Phe-Lys-) dimer Synonymes: CA index name: Cyclo(L-arginylglycyl-L-α-aspartyl-D-phenylalanyl-L-lysyl), 5,5'-[N-[(6-hydrazino-3-pyridinyl)carbonyl]-L-glutamoyl]bis- Literature: Jia B. et al. ^{99m}Tc-Labeled Cyclic RGDfK Dimer: Initial Evaluation for SPECT Imaging of Glioma Integrin $\alpha_v\beta_3$ Expression. Bioconjugate Chem. 2006, 17, 1069-1076. Janssen M.L. et al. Tumor Targeting with Radiolabeled $\alpha_v\beta_3$ Integrin Binding Peptides in a Nude Mouse Model. Cancer Res. 2002, 62, 6146-6151.</p>	<p>9867.0001: 1 mg per vial 9867.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

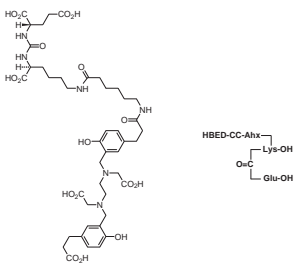
Product Number	Product	Order number / Unit
9900	<p>[Tyr³,Lys⁵(Boc)]octreotide acetate Precursor for N-terminal substituted octreotide analogs</p> <p>C₅₄H₇₄N₁₀O₁₃S₂ Molar Mass: 1135.36 [147790-89-4] (net peptide) Colourless freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: H-D-Phe-Cys-Tyr-D-Trp-Lys(Boc)-Thr-Cys-Thr-ol, cyclic disulfide Synonyms: [Lys(Boc)⁵]TOC; CA index name: L-Cysteinamide, D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-N6-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide</p> <p>Literature: no literature reference available</p>	<p>9900.0001: 1 mg per vial 9900.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

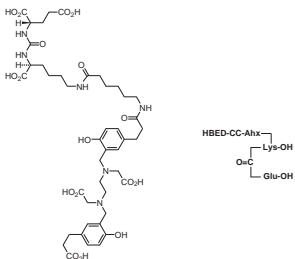
Product Number	Product	Order number / Unit
9901	<p>[Lys⁵(Boc)]octreotate acetate Precursor for N-terminal substituted octreotate analogs</p> <p>C₄₉H₆₄N₁₀O₁₁S₂ Molar Mass: 1133.34 [133304-78-6] (net peptide) Colourless freeze-dried solid packaged in screw cap vials. Purity: ≥ 95 % Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: Sequence: H-D-Phe-Cys-Phe-D-Trp-Lys(Boc)-Thr-Cys-Thr-OH, cyclic disulfide Synonyms: CA index name: L-Threonine, D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-N6-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (2→7)-disulfide Literature: no literature reference available</p>	<p>9901.0001: 1 mg per vial 9901.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

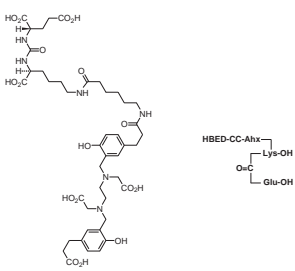
Product Number	Product	Order number / Unit
9902	<p>[Lys⁵(Boc)]lanreotide acetate Precursor for N-terminal substituted lanreotide analogs</p> <p>C₅₉H₇₇N₁₁O₁₂S₂ Molar Mass: 1196.44 [182482-12-8] (net peptide) Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-2-Nal-Cys-Tyr-D-Trp-Lys(Boc)-Val-Cys-Thr-NH₂, cyclic disulfide</p> <p>Synonyms: [Lys⁵(Boc)]lanreotide; CA index name: L-Threoninamide, 3-(2-naphthalenyl)-D-alanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-N6- [(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2→7)-disulfide</p> <p>Literature: no literature reference available</p>	<p>9902.0001: 1 mg per vial 9902.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

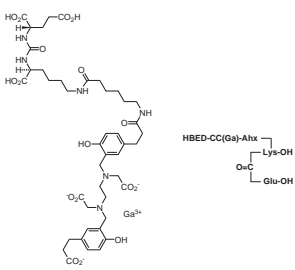
Product Number	Product	Order number / Unit
9903	<p>[Nal³,Lys⁵(Boc)]octreotide acetate Precursor for N-terminal substituted [Nal³]octreotide analogs</p> <p>C₅₈H₇₆N₁₀O₁₂S₂ Molar Mass: 1169.42 CAS-RN not yet assigned Colourless to off-white freeze-dried solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: H-D-Phe-Cys-1-Nal-D-Trp-Lys(Boc)-Thr-Cys-Thr-ol, cyclic disulfide</p> <p>Synonyms: [Nal³,Lys⁵(Boc)]octreotide; L-Cysteinamide, D-phenylalanyl-L-cysteinyl-3-(1-naphthalenyl)-L-alanyl-D- tryptophyl-N6-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-threonyl-N- [(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2→7)-disulfide</p> <p>Literature: no literature reference available</p>	<p>9903.0001: 1 mg per vial 9903.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

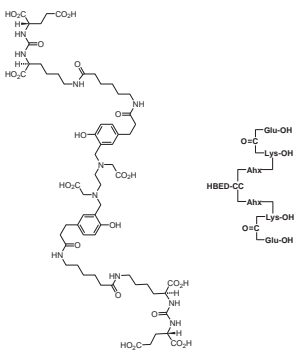
Product Number	Product	Order number / Unit
9908	<p>5(6)-FAM-TATE</p> <p>fluorescent dye-labelled somatostatin receptor agonist. 5(6)-FAM = 5(6)-carboxyfluorescein (mixture of regioisomers)</p> <p>$C_{70}H_{74}N_{10}O_{18}S_2$ Molar Mass: 1407.5 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Dark-orange freeze-dried solid packaged in screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: 5(6)-FAM-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH, cyclic disulfide.</p> <p>Synonyms: 5(6)-FAM-TOCA; FAM-[Tyr³]octreotate;</p> <p>Literature: no literature reference available</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

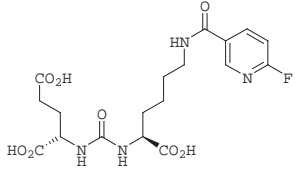
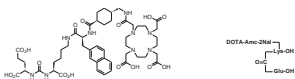
Product Number	Product	Order number / Unit
9919	<p>PSMA-11 (GMP)</p> <p>Precursor for [⁶⁸Ga]GaPSMA-11 PSMA: prostate-specific membrane antigen</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{44}H_{62}N_6O_{17} \cdot x CF_3CO_2H$ Molar Mass: 947.0 (net peptide)</p> <p>[1366302-52-4]</p> <p>Colourless to off-white solid packaged in 2-necked plastic vials (reaction vessel) with combi stoppers for LuerLock</p> <p>Purity: $\geq 96\%$</p> <p>Certificates: CoA with ESI-MS and NMR (identity); HPLC (purity) ; GC (residual solvents); microbiology test</p> <p>Chemical Name: CA index name: 4,6,12,19-Tetraazadocosane-1,3,7-tricarboxylic acid, 22-[3-[[[2-[[[5-(2-carboxyethyl)-2-hydroxyphenyl]methyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]methyl]-4-hydroxyphenyl]-5,13,20-trioxo-, (3S,7S)-, supplied as trifluoroacetate salt</p> <p>Synonyms: PSMA^{HBED}; Glu-CO-Lys(Ahx)-HBED-CC; Glu-NH-CO-NH-Lys(Ahx)-HBED-CC; 2-[3-(1-Carboxy-5-6-[3-(3-[(2-[5-(2-carboxy-ethyl)-2-hydroxy-benzyl]-carboxymethyl-amino-ethyl)-carboxymethyl-amino]-methyl-4-hydroxy-phenyl)-propionylamino]-hexanoylamino-</p> <p>Literature: Eder M. et al. ⁶⁸Ga-Complex Lipophilicity and the Targeting Property of a Urea-Based PSMA Inhibitor for PET Imaging. Bioconjugate Chem. 2012, 23, 688-697.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

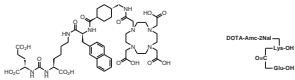
Product Number	Product	Order number / Unit
9920	<p>PSMA-11 Precursor for [⁶⁸Ga]GaPSMA-11 PSMA: prostate-specific membrane antigen $C_{44}H_{62}N_6O_{17} \cdot x CF_3CO_2H$ Molar Mass: 947.0 (net peptide)</p> <p>[1366302-52-4] Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: $\geq 95\%$ Certificates: CoA; MS (identity); HPLC (purity) Chemical Name: CA index name: 4,6,12,19-Tetraazadocosane-1,3,7-tricarboxylic acid, 22-[3-[[[2-[[[5-(2-carboxyethyl)-2-hydroxyphenyl]methyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]methyl]-4-hydroxyphenyl]-5,13,20-trioxo-, (3S,7S)-, supplied as trifluoroacetate salt</p> <p>Synonymes: PSMA^{HBED}; Glu-CO-Lys(Ahx)-HBED-CC; Glu-NH-CO-NH-Lys(Ahx)-HBED-CC; 2-[3-(1-Carboxy-5-6-[3-(3-[(2-[5-(2-carboxy-ethyl)-2-hydroxy-benzyl]-carboxymethyl-amino-ethyl)-carboxymethyl-amino]-methyl-4-hydroxy-phenyl)-propionylamino]-hexanoylamino-</p> <p>Literature: Eder M. et al. Novel Preclinical and Radiopharmaceutical Aspects of [⁶⁸Ga]Ga-PSMA-HBED-CC: A New PET Tracer for Imaging of Prostate Cancer. Pharmaceuticals. 2014, 7, 779-796. Eder M. et al. ⁶⁸Ga-Complex Lipophilicity and the Targeting Property of a Urea-Based PSMA Inhibitor for PET Imaging. Bioconjugate Chem. 2012, 23, 688-697.</p>	<p>9920.0000.5: 0.5 mg per vial 9920.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

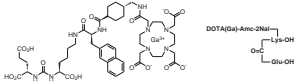
Product Number	Product	Order number / Unit
9921	<p>PSMA-11 (GMP) Precursor for [⁶⁸Ga]GaPSMA-11 PSMA: prostate-specific membrane antigen</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>$C_{44}H_{62}N_6O_{17} \cdot x CF_3CO_2H$ Molar Mass: 947.0 (net peptide)</p> <p>[1366302-52-4]</p> <p>Colourless to off-white solid packaged in plastic vials</p> <p>Purity: $\geq 96\%$</p> <p>Certificates: CoA with ESI-MS and NMR (identity); HPLC (purity) ; GC (residual solvents); heavy metals content (ICP-MS); microbiology test</p> <p>Chemical Name: CA index name: 4,6,12,19-Tetraazadocosane-1,3,7-tricarboxylic acid, 22-[3-[[[2-[[[5-(2-carboxyethyl)-2-hydroxyphenyl]methyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]methyl]-4-hydroxyphenyl]-5,13,20-trioxo-, (3S,7S)-, supplied as trifluoroacetate salt</p> <p>Synonymes: PSMA^{HBED}; Glu-CO-Lys(Ahx)-HBED-CC; Glu-NH-CO-NH-Lys(Ahx)-HBED-CC; 2-[3-(1-Carboxy-5-6-[3-(3-[(2-[5-(2-carboxy-ethyl)-2-hydroxy-benzyl]-carboxymethyl-amino-ethyl)-carboxymethyl-amino]-methyl-4-hydroxy-phenyl)-propionylamino]-hexanoylamino-</p> <p>Literature: Eder M. et al. Novel Preclinical and Radiopharmaceutical Aspects of [⁶⁸Ga]Ga-PSMA-HBED-CC: A New PET Tracer for Imaging of Prostate Cancer. Pharmaceuticals. 2014, 7, 779-796. Eder M. et al. ⁶⁸Ga-Complex Lipophilicity and the Targeting Property of a Urea-Based PSMA Inhibitor for PET Imaging. Bioconjugate Chem. 2012, 23, 688-697.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

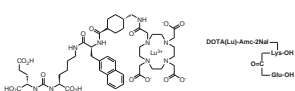
Product Number	Product	Order number / Unit
9922	<p>GaPSMA-11</p> <p>Reference standard for [⁶⁸Ga]GaPSMA-11 PSMA: prostate-specific membrane antigen</p> <p>$C_{44}H_{59}GaN_6O_{17}$ Molar Mass: 1013.69</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Glu-CO-Lys(Ahx)-[Ga(HBED-CC)]</p> <p>Synonyms: Ga-PSMA^{HBED}</p> <p>Literature: Eder M. et al. Novel Preclinical and Radiopharmaceutical Aspects of [⁶⁸Ga]Ga-PSMA-HBED-CC: A New PET Tracer for Imaging of Prostate Cancer. <i>Pharmaceuticals</i>. 2014, 7, 779-796. Eder M. et al. ⁶⁸Ga-Complex Lipophilicity and the Targeting Property of a Urea-Based PSMA Inhibitor for PET Imaging. <i>Bioconjugate Chem.</i> 2012, 23, 688-697.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

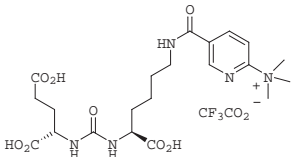
Product Number	Product	Order number / Unit
9923	<p>PSMA-10</p> <p>Precursor for [⁶⁸Ga]GaPSMA-10 PSMA: prostate-specific membrane antigen</p> <p>$C_{62}H_{92}N_{10}O_{24} \cdot x CF_3CO_2H$ Molar Mass: 1361.45 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: [Glu-ureido-Lys(Ahx)]₂-HBED-CC, supplied as trifluoroacetate salt</p> <p>Synonyms: PSMA₂HBED; Glu-CO-Lys(Ahx)-HBED-CC-(Ahx)Lys-CO-Glu</p> <p>Literature: Schäfer M. et al. A dimerized urea-based inhibitor of the prostate-specific membrane antigen for ⁶⁸Ga-PET imaging of prostate cancer. <i>EJNMMI Research</i> 2012, 2, 23.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

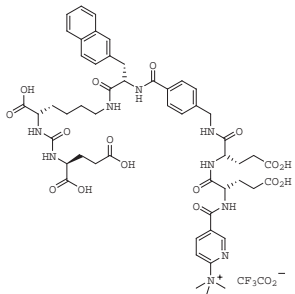
Product Number	Product	Order number / Unit
9925	<p>DCFPyL reference standard</p> <p>Reference standard for [¹⁸F]DCFPyL</p> <p>2-(3-1-carboxy-5-[(6-[¹⁸F]fluoro-pyridine-3-carbonyl)-amino]-pentyl-ureido)-pentanedioic acid</p> <p>Research Chemical</p> <p>The tracer [¹⁸F]DCFPyL is patent-protected in some countries, please consider to inquire for PSMA-1007 compounds (ID 9943, 99433) instead, that are provided by ABX under exclusive licence.</p> <p>C₁₈H₂₃FN₄O₈ Molar Mass: 442.40</p> <p>[1423758-00-2]</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates:</p> <p>CoA; ¹H and ¹⁹F NMR spectra (identity); HPLC (purity)</p> <p>Chemical Name:</p> <p>2-(3-1-carboxy-5-[(6-fluoro-pyridine-3-carbonyl)-amino]-pentyl-ureido)-pentanedioic acid</p> <p>Synonyms:</p> <p>[¹⁸F]DCFPyL standard; 2-(3-1-Carboxy-5-[(6-fluoro-pyridine-3-carbonyl)-amino]-pentyl-ureido)-pentanedioic acid</p> <p>Literature:</p> <p>Chen Y. et al. 2-(3-1-Carboxy-5-[(6-[¹⁸F]Fluoro-Pyridine-3-Carbonyl)-Amino]-Pentyl-Ureido)-Pentanedioic Acid, [¹⁸F]DCFPyL, a PSMA-Based PET Imaging Agent for Prostate Cancer. Clin. Cancer. Res. 2011, 17, 7645-7653.</p> <p>Szabo Z. et al. Initial Evaluation of [¹⁸F]DCFPyL for Prostate-Specific Membrane Antigen (PSMA)-Targeted PET Imaging of Prostate Cancer. Mol. Imaging Biol. 2015, 17, 565-574.</p> <p>Rowe S.P. et al. Imaging of metastatic clear cell renal cell carcinoma with PSMA-targeted ¹⁸F-DCFPyL PET/CT. Ann. Nucl. Med. 2015, 29, 877-882.</p> <p>Rowe S.P. et al. Detection of ¹⁸F-FDG PET/CT occult lesions with ¹⁸F-DCFPyL PET/CT in a patient with metastatic renal cell carcinoma. Clin. Nucl. Med. 2016, 41, 83-85.</p> <p>Dietlein M. et al. Comparison of [¹⁸F]DCFPyL and [⁶⁸Ga]Ga-PSMA-HBED-CC for PSMA-PET Imaging in Patients with Relapsed Prostate Cancer. Mol. Imaging Biol. 2015, 17, 575-584.</p>	<p>9925.0005: 5 mg per vial</p> <p>9925.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 
9933	<p>PSMA-617</p> <p>Precursor for [⁶⁸Ga/¹⁷⁷Lu/⁹⁰Y]PSMA-617</p> <p>PSMA: prostate-specific membrane antigen</p> <p>C₄₉H₇₁N₉O₁₆ Molar Mass: 1042.1 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates:</p> <p>CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name:</p> <p>Synonyms:</p> <p>2-[3-(1-Carboxy-5-3-naphthalen-2-yl-2-[(4-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-acetylamino]-methyl-cyclohexanecarbonyl)-amino]-propionylamino-pentyl)-ureido]-pentanedioic acid</p> <p>Literature:</p> <p>Kratochwil C. et al. [¹⁷⁷Lu]Lutetium-labelled PSMA ligand-induced remission in a patient with metastatic prostate cancer. Eur. J. Nucl. Med. Mol. Imaging. 2015, 42, 987-988.</p> <p>Benesova M. et al. Preclinical Evaluation of a Tailor-Made DOTA-Conjugated PSMA Inhibitor with Optimized Linker Moiety for Imaging and Endoradiotherapy of Prostate Cancer. J. Nucl. Med. 2015, 56, 914-920.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

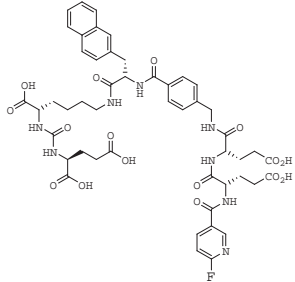
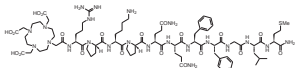
Product Number	Product	Order number / Unit
9934	<p>PSMA-617 (GMP) Precursor for [⁶⁸Ga/¹⁷⁷Lu/⁹⁰Y]PSMA-617 PSMA: prostate-specific membrane antigen</p> <p>Manufactured according to GMP requirements for APIs for use in clinical trials (ICH Q7 chapter 19)</p> <p>C₄₉H₇₁N₉O₁₆ Molar Mass: 1042.1 (net peptide) CAS-RN not yet assigned Colourless to off-white solid packaged in plastic vials Purity: ≥ 98 %</p> <p>Certificates: CoA with ESI-MS and NMR (identity); HPLC (purity) ; GC (residual solvents); heavy metals content (ICP-MS); microbiology test</p> <p>Chemical Name:</p> <p>Synonymes: 2-[3-(1-Carboxy-5-3-naphthalen-2-yl-2-[(4-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-acetylamino]-methyl-cyclohexanecarbonyl)-amino]-propionylamino-pentyl)-ureido]-pentanedioic acid</p> <p>Literature: Kratochwil C. et al. [¹⁷⁷Lu]Lutetium-labelled PSMA ligand-induced remission in a patient with metastatic prostate cancer. Eur. J. Nucl. Med. Mol. Imaging. 2015, 42, 987-988. Benesova M. et al. Preclinical Evaluation of a Tailor-Made DOTA-Conjugated PSMA Inhibitor with Optimized Linker Moiety for Imaging and Endoradiotherapy of Prostate Cancer. J. Nucl. Med. 2015, 56, 914-920.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

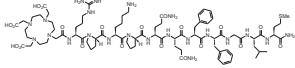
Product Number	Product	Order number / Unit
9935	<p>GaPSMA-617 Reference standard for [68Ga]GaPSMA-617</p> <p>C₄₉H_{68Ga}N₉O₁₆ × CF₃CO₂H Molar Mass: 1108.8 (net. peptide) CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: GaPSMA-617</p> <p>Synonymes: natGa-PSMA-617</p> <p>Literature: Benesova M. et al. Preclinical Evaluation of a Tailor-Made DOTA-Conjugated PSMA Inhibitor with Optimized Linker Moiety for Imaging and Endoradiotherapy of Prostate Cancer. J. Nucl. Med. 2015, 56, 914-920.</p>	<p>9935.0001: 1 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9936	<p>LuPSMA-617</p> <p>Reference Standard for [¹⁷⁷Lu]LuPSMA-617</p> <p>$C_{49}H_{68}LuN_9O_{16} \cdot x CF_3CO_2H$ Molar Mass: 1214.1 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name:</p> <p>Synonyms: n/a</p> <p>Literature: Kratochwil C. et al. [¹⁷⁷Lu]Lutetium-labelled PSMA ligand-induced remission in a patient with metastatic prostate cancer. Eur. J. Nucl. Med. Mol. Imaging. 2015, 42, 987-988. Benesova M. et al. Preclinical Evaluation of a Tailor-Made DOTA-Conjugated PSMA Inhibitor with Optimized Linker Moiety for Imaging and Endoradiotherapy of Prostate Cancer. J. Nucl. Med. 2015, 56, 914-920.</p>	<p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9941	<p>deprotected DCFPyL precursor</p> <p>Precursor for [¹⁸F]DCFPyL</p> <p>2-(3-1-carboxy-5-[(6-[¹⁸F]fluoro-pyridine-3-carbonyl)-amino]-pentyl-ureido)-pentanedioic acid</p> <p>Research Chemical The tracer [¹⁸F]DCFPyL is patent-protected in some countries, please consider to inquire for PSMA-1007 compounds (ID 9943, 99433) instead, that are provided by ABX under exclusive licence.</p> <p>$C_{23}H_{32}F_3N_5O_{10}$ Molar Mass: 595.52</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum (identity); HPLC (purity)</p> <p>Chemical Name: 5-((S)-5-carboxy-5-(3-((S)-1,3-dicarboxypropyl)ureido)pentylcarbamoyl)-N,N,N-trimethylpyridin-2-aminium 2,2,2-trifluoroacetate</p> <p>Synonyms: deprotected [¹⁸F]DCFPyL precursor; 5-((S)-5-carboxy-5-(3-((S)-1,3-dicarboxypropyl)ureido)pentylcarbamoyl)-pyridin-2-yl-trimethylammonium 2,2,2-trifluoroacetate</p> <p>Literature: Chen Y. et al. 2-(3-1-Carboxy-5-[(6-[¹⁸F]Fluoro-Pyridine-3-Carbonyl)-Amino]-Pentyl-Ureido)-Pentanedioic Acid, [¹⁸F]DCFPyL, a PSMA-Based PET Imaging Agent for Prostate Cancer. Clin. Cancer. Res. 2011, 17, 7645-7653. Szabo Z. et al. Initial Evaluation of [¹⁸F]DCFPyL for Prostate-Specific Membrane Antigen (PSMA)-Targeted PET Imaging of Prostate Cancer. Mol. Imaging Biol. 2015, 17, 565-574. Rowe S.P. et al. Imaging of metastatic clear cell renal cell carcinoma with PSMA-targeted ¹⁸F-DCFPyL PET/CT. Ann. Nucl. Med. 2015, 29, 877-882. Rowe S.P. et al. Detection of ¹⁸F-FDG PET/CT occult lesions with ¹⁸F-DCFPyL PET/CT in a patient with metastatic renal cell carcinoma. Clin. Nucl. Med. 2016, 41, 83-85. Dietlein M. et al. Comparison of [¹⁸F]DCFPyL and [⁶⁸Ga]Ga-PSMA-HBED-CC for PSMA-PET Imaging in Patients with Relapsed Prostate Cancer. Mol. Imaging Biol. 2015, 17, 575-584.</p>	<p>9941.0010: 10 mg per vial</p> <p>Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9943	<p>PSMA-1007 precursor Precursor for [¹⁸F]PSMA-1007 PSMA: prostate-specific membrane antigen Research Chemical</p> <p>C₅₄H₆₄F₃N₉O₁₈ Molar Mass: 1184.13 CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass crimp cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H NMR spectrum (identity); HPLC (purity)</p> <p>Chemical Name: 5-((S)-4-carboxy-1-((S)-4-carboxy-1-(4-((S)-1-((S)-5-carboxy-5-(3-((S)-1,3-dicarboxypropyl)ureido)pentylamino)-3-(naphthalen-2-yl)-1-oxopropan-2-ylcarbamoyl)benzylamino)-1-oxobutan-2-ylamino)-1-oxobutan-2-ylcarbamoyl)-N,N,N-trimethylpyridin-2-aminium 2,2,2-trifluoroacetate</p> <p>Synonyms: deprotected [¹⁸F]PSMA-1007 precursor; Glu-CO-Lys(2NaI-Amb-Glu-Glu-PyTMA); EuK(2NaI-Amb-Glu-Glu-PyTMA); 5-((S)-4-carboxy-1-((S)-4-carboxy-1-(4-((S)-1-((S)-5-carboxy-5-(3-((S)-1,3-dicarboxypropyl)ureido)pentylamino)-3-(naphthalen-2-yl)-1-oxopropan-2-ylcarbamoyl)benzylamino)-1-oxobutan-2-ylamino)-1-oxobutan-2-ylcarbamoyl)-pyridin-2-yl-trimethylammonium 2,2,2-trifluoroacetate</p> <p>Literature: Giesel F.L. et al. 18F-[*]PSMA-1007[*] PET/CT Detects Micrometastases in a Patient With Biochemically Recurrent Prostate Cancer. Clin. Genitourin. Cancer. 2016. doi: 10.1016/j.clgc.2016.12.029. Giesel F.L. F-18 labelled [*]PSMA-1007[*]: biodistribution, radiation dosimetry and histopathological validation of tumor lesions in prostate cancer patients. Eur. J. Nucl. Med. Mol. Imaging 2017, 44(4), 678-688. doi: 10.1007/s00259-016-3573-4. Cardinale J. et al. Preclinical Evaluation of [¹⁸F]PSMA-1007: A New PSMA-Ligand for Prostate Cancer Imaging. J. Nucl. Med. 2016. doi: 10.2967/jnumed.116.181768 Giesel F.L. et al. ¹⁸F-Labelled PSMA-1007 shows similarity in structure, biodistribution and tumour uptake to the theragnostic compound PSMA-617. Eur. J. Nucl. Med. Biol. 2016, 43, 1929-30. Kesch C. et al. Intra-individual comparison of ¹⁸F-PSMA-1007-PET/CT, multi-parametric MRI and radical prostatectomy specimen in patients with primary prostate cancer - a retrospective, proof of concept study. J Nucl Med. 2017 doi: 10.2967/jnumed.116.18923</p>	<p>9943.0003: 3 mg per vial Please inquire for customized filling and bulk quantities.</p>  <p>The chemical structure shows a complex molecule with multiple carboxylic acid groups, amide linkages, and a trimethylpyridinium cation counterion (CF₃CO₂⁻). The structure is highly branched and contains several stereocenters.</p>

Product Number	Product	Order number / Unit
99433	<p>PSMA-1007 reference standard Reference Standard for [¹⁸F]PSMA-1007</p> <p>Research Chemical</p> <p>$C_{49}H_{55}FN_8O_{16}$ Molar Mass: 1031.00 CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: > 95 %</p> <p>Certificates: CoA; ¹H and ¹⁹F NMR spectra (identity); HPLC (purity)</p> <p>Chemical Name: (3S,10S,14S)-1-(4-(((S)-4-carboxy-2-((S)-4-carboxy-2-(6-fluoronicotinamido)butanamido)butanamido)methyl)phenyl)-3-(naphthalen-2-ylmethyl)-1,4,12-trioxo-2,5,11,13-tetraazahexadecane-10,14,16-tricarboxylic acid</p> <p>Synonyms: [¹⁸F]PSMA-1007 standard</p> <p>Literature: Giesel F.L. et al. ¹⁸F-PSMA-1007 PET/CT Detects Micrometastases in a Patient With Biochemically Recurrent Prostate Cancer. Clin. Genitourin. Cancer. 2016. doi: 10.1016/j.clgc.2016.12.029. Giesel F.L. F-18 labelled PSMA-1007: biodistribution, radiation dosimetry and histopathological validation of tumor lesions in prostate cancer patients. Eur. J. Nucl. Med. Mol. Imaging 2017, 44(4), 678-688. doi: 10.1007/s00259-016-3573-4. Cardinale J. et al. Preclinical Evaluation of [¹⁸F]PSMA-1007: A New PSMA-Ligand for Prostate Cancer Imaging. J. Nucl. Med. 2016. doi: 10.2967/jnumed.116.181768 Giesel F.L. et al. ¹⁸F-Labelled PSMA-1007 shows similarity in structure, biodistribution and tumour uptake to the theragnostic compound PSMA-617. Eur. J. Nucl. Med. Biol. 2016, 43, 1929-30. Kesch C. et al. Intra-individual comparison of ¹⁸F-PSMA-1007-PET/CT, multi-parametric MRI and radical prostatectomy specimen in patients with primary prostate cancer - a retrospective, proof of concept study. J Nucl Med. 2017 doi: 10.2967/jnumed.116.18923</p>	<p>99433.0005: 5 mg per vial 99433.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 
9960	<p>DOTA-Substance P Precursor for radiometal-labelled neurokinin receptor targeted peptides</p> <p>$C_{79}H_{124}N_{22}O_{20} \cdot x CH_3CO_2H <$ Molar Mass: 1734.0 (net peptide) CAS-RN not yet assigned Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: ≥ 95 %</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: DOTA-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH₂, supplied as acetate salt</p> <p>Synonyms: N^{2,1}-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-arginyl-L-prolyl-L-lysyl-L-prolyl-L-glutaminy-L-glutaminy-L-phenylalanyl-L-phenylalanyl-glycyl-L-leucyl-L-methionine amide</p> <p>Literature: De Araújo E.B. Radiolabeling of substance p with lutetium-177 and biodistribution study in rat pancreatic tumor xenografted nude mice. Cell. Mol. Biol. 2010, 56, 12-17.</p>	<p>9960.0001: 1 mg per vial 9960.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

Product Number	Product	Order number / Unit
9960	<p>DOTA-Substance P</p> <p>Precursor for radiometal-labelled neurokinin receptor targeted peptides</p> <p>$C_{79}H_{124}N_{22}O_{20} \cdot x CH_3CO_2H <$ Molar Mass: 1734.0 (net peptide)</p> <p>CAS-RN not yet assigned</p> <p>Colourless to off-white solid packaged in dark glass screw cap vials.</p> <p>Purity: $\geq 95\%$</p> <p>Certificates: CoA; MS (identity); HPLC (purity)</p> <p>Chemical Name: Sequence: DOTA-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH₂, supplied as acetate salt</p> <p>Synonymes: N^{2,1}-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-arginyl-L-prolyl-L-lysyl-L-prolyl-L-glutaminy-L-glutaminy-L-phenylalanyl-L-phenylalanyl-glycyl-L-leucyl-L-methionine amide</p> <p>Literature: De Araújo E.B. Radiolabeling of substance p with lutetium-177 and biodistribution study in rat pancreatic tumor xenografted nude mice. Cell. Mol. Biol. 2010, 56, 12-17.</p>	<p>9960.0001: 1 mg per vial 9960.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.</p> 

CAS-RN Index

List of Chemical Abstracts Registry Numbers for all catalogue entries.
Substances with no CAS-RN yet assigned are listed at the end.

CAS Number	Product Number	Name
[1000816-92-1]	2921	Di-THP-nosyl-AUR
[1000875-21-7]	7012	TMSnBG
[1003005-81-9] ([¹⁸ F]Fluoro-propargyl-triethylene glycol)	6308	Fluoro-propargyl-triethylene glycol
[1004322-97-7]	9866	DTPA-Bn-cyclo(RDGfK) dimer trifluoroacetate
[1005325-42-7]	1652	PBR28 precursor
[1007840-96-1]	2421	Fluoroethyl-Carfentanil hydrochloride
[1016545-04-2]	4402	(2S,3S)-N-Boc-carboxylreboxetine
[1016545-13-3] (free base)	4405	Methylreboxetinecarboxylate
[102034-49-1] (free base)	1311	6-Fluoro-D,L-DOPA hydrochloride
[1027785-95-0]	9717	Ga-DOTA-NOC
[1040397-47-4] [⁶⁸ Ga]DOTA-NOC		
[1031370-96-3]	3571	FPEB precursor
[103667-46-5] (net peptide)	9810	[Tyr ³]Octreotide acetate
[103694-84-4]	7210	Copper tetraMIBI tetrafluoroborate [Cu(MIBI) ₄]BF ₄
[103694-84-4]	7211	Copper tetraMIBI tetrafluoroborate (GMP)
[103725-47-9]	7100	S-Benzoyl-MAG-3
[103935-47-3]	6182	2-Bromoethyl triflate
[104676-71-3]	7220	Zinc-TBI
[105018-14-2]	4406	(2S,3S)-Methylreboxetine
[106114-42-5]	1591	Fluoroethylspiperone
[106-93-4]	6175	Dibromoethane
[107188-74-9]	1540	FLB 457
[107188-87-4]	1522	Epidepride
[107794-71-8]	1119	MBBTG
[108-01-0]	6100	Dimethylaminoethanol
[108736-35-2] (net peptide)	9820	Lanreotide trifluoroacetate
[1089194-09-1]	4399	FBEM standard
[109434-22-2]	7200	MIBI
[1095267-89-2]	1654	FEPPA precursor
[1095267-90-5]	1655	FEPPA standard
[111555-57-8]	2810	N-Methylnaltrindole
[1119249-30-7]	6305	Tosyl-propargyl-diethylene glycol
[112501-53-8]	1180	DMTr-lysothymidine
[113158-34-2]	4500	Norbinaltorphimine dihydrochloride
[105618-26-6] (free base)		
[113310-87-5]	1501	(R)-O-Desmethylnaloxone hydrobromide
[113310-88-6]	1500	(S)-O-Desmethylnaloxone hydrobromide
[113544-40-4]	1117	Glucose Triflate
[113981-16-1]	1820	Nitro-Setoperone
[114077-01-9]	1369	OMFD
[114435-86-8]	6194	Fluoromethyl tosylate
[115017-61-3]	1477	(R)-(-)-Norapomorphine hydrobromide
[478-76-2] (free base)		
[115134-32-2]	2342	S-[¹¹ C]-AIB precursor
[115134-32-2] (S-AIB-precursor)	2340	rac [¹¹ C]-AIB precursor
[1159940-23-4]	1335	Nucleophilic F-L-DOPA precursor
[1161009-63-7]	4397	FPyKYNE
[1161009-68-2]	4396	[¹⁸ F]FPyKYNE precursor
[1161260-63-4] ([¹⁸ F]DFEAN)	5010	DFEAN
[116784-70-4]	2580	GB 67

[116784-78-2]	2570	GB 99
[1187551-69-4]	2051	3-O-Trityl-6-O-desmethyl-phenethyl-orvinol
[119670-11-0]	1510	(S)-O-Desmethylnaloxone
[1215091-03-4] (free base)	6532	5-FEHP hydrochloride
[1217443-99-6]	1466	SCH-23388 hydrochloride
[73445-63-3] (free base)		
[1217462-17-3]	1462	(S)-SCH-24518 hydrochloride
[135556-21-7] (free base)		
[122551-95-5]	1330	4-O-Pivaloyl-L-DOPA
[122769-71-5]	1329	4-O-Pivaloyl-L-DOPA Hydrochloride
[122799-38-6]	1260	2'-Fluoro-thymidine
[123931-31-7]	5620	(-)-Norverapamil
[1242003-07-1] (water free compound)	7284	PrP9
[124236-61-9]	1640	(R,S)-N-Desmethyl PK11195
[1246547-53-4]	7034	MFBG hydrochloride
[124915-01-1]	4385	CPTMA
[124915-02-2]	9850	4-Formyl-N,N,N-Trimethylanilinium triflate
[124915-06-6]	4391	FB precursor
[125341-24-4]	1490	(+)-NNC112
[125941-87-9]	1464	SCH-23390 hydrochloride
[1261156-59-5] (free base)	1337	6-Nitro-L-DOPA hydrogensulfate
[126766-32-3]	2070	GR 89696 fumarate
[126766-43-6]	2071	(R)-(-)-GR103545 fumarate
[126766-48-1]	2062	Normethylcarbamoyl-GR 89696
[127502-06-1]	7310	Tetrofosmin
[127648-30-0]	4020	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane
[128145-75-5]	1460	(R)-SCH-24518 hydrochloride
[1283095-64-6]	2450	(S)-FPSPPA
[1283095-67-9]	2460	(R)-FPSPPA
[1283095-70-4]	2470	(S)-Methyl-FPSPPA
[1283095-73-7]	2480	(R)-Methyl-FPSPPA
[128584-73-6]	1590	N-Mesitylenesulfonyloxy-ethyl-spiperone
[128600-22-6]	1530	FLB 604
[13100-46-4]	1131	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose
[132059-12-2]	2590	(S)-1-(2-Amino-3-nitrophenoxy)-3-tert-butylamino-propan-2-ol
[132-17-2]	4231	Benzotropine Mesylate
[13292-45-0]	5700	N-Demethylrifampicin
[133066-70-3]	2760	FNMB
[133081-26-2]	7080	Succinimidyl-N-Boc-Hynic
[133081-27-3]	7090	Succinimidyl-Hynic hydrochloride
[167639-20-5] (free base)		
[133304-78-6] (net peptide)	9901	[Lys ⁵ (Boc)]octreotate acetate
[135382-47-7]	1521	Tin-epidepride precursor
[135416-43-2]	4030	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)tropane
[13551-89-8]	1410	Fluoromisonidazole
[13551-92-3]	1420	Desmethylmisonidazole
[1366302-52-4]	9919	PSMA-11 (GMP)
[1366302-52-4]	9920	PSMA-11
[1366302-52-4]	9921	PSMA-11 (GMP)
[136794-87-1]	4050	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)nortropane
[136794-88-2]	4041	TBS-CT
[137076-50-7]	7301	DOTAet

[137564-70-6]	2850	Benzyl-14-(R,S)-tosyloxy-6-thiaheptadecanoate
[137564-72-8]	2860	14-(R,S)-Fluoro-6-thiaheptadecanoic acid
[138661-02-6] (net peptide)	9740	Pentreotide trifluoroacetate
[138685-99-1]	1261	3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine
[1391711-43-5]	4172	TEO-PE2I
[1392498-16-6]	5149	6-O-Tosyloxyethyl-CBT
[139290-65-6]	1850	MDL100907
[139290-65-6] (free base)	1870	MDL100907 tartrate salt
[139290-69-0]	1860	MDL100151
[139418-53-4]	1800	Nitro-Altanserine
[141663-88-9]	1918	FDHT standard
[141664-05-3]	1916	FDHT precursor
[141807-58-1]	4140	beta-CIT acid
[1421915-93-6]	3353	(-)-Flubatine precursor
[1421915-93-6]	3354	(-)-Flubatine precursor (GMP)
[1423758-00-2]	9925	DCFPyL reference standard
[14255-61-9]	7161	HMDP
[14260-82-3]	1222	3'-Iodo-thymidine
[1429-50-1]	7165	EDTMP
[143188-51-6]	1681	Desmethylozidomazene
[143412-40-2]	2510	(S)-Desisopropylcarazolin
[143412-41-3]	2500	(R)-Desisopropylcarazolin
[14344-48-0]	7250	EC
[14344-58-2]		
[121251-02-3] (free base)	7260	ECD
[14357-78-9]	2020	Diprenorphine
[143773-92-6] (free base)	7010	MTMSBG
[143993-89-9]	1320	DiBoc-Iodo-L-DOPA
[143993-90-2]	1300	6-Trimethylstannyl-L-DOPA
[144334-59-8]	1310	6-Fluoro-L-DOPA hydrochloride
[14521-98-3]	2052	Phenethyl-orvinol
[1456877-71-6]	3371	ASEM precursor
[146474-00-2]	4398	FBEM precursor
[146629-34-7]	2948	5-Trimethylstannyl-2'-deoxyuridine
[146714-76-3]	3230	Desmethyl-WAY 100634
[146714-97-8]	3210	WAY 100635
[146715-34-6]	3220	Desmethyl-WAY100635
[146725-33-9]	4180	Nor-beta-CCIT
[14685-79-1]	1110	CIDG
[147790-81-6] (net peptide)	9744	DTPA-TOC trifluoroacetate
[147790-89-4] (net peptide)	9900	[Tyr ³ ,Lys ⁵ (Boc)]octreotide acetate
[148613-10-9]	3100	N-Trifluoroacetyl-5-acetoxy-2-trimethylstannyl-phenylalanine ethyl ester
[148613-12-1]	3130	2-Fluoro-m-Tyrosine
[148702-73-2]	1880	SB206453
[148702-73-2]	1881	SB206453 (GMP)
[148702-79-8]	1882	SB207145
[149183-89-1]	4733	(±)-9-O-Desmethyl-tetrabenazine
[150133-21-4]	2072	(S)-(+)-GR89696 fumarate
[150196-34-2]	1400	NITTP
[150196-34-2]	1401	NITTP (GMP)
[150196-34-2]	1402	NITTP (GMP)
[150519-28-1]	6030	Desmethyl-Rolipram

[150804-39-0]	6520	Dimethyl-8-phenylsulfonyl-5-phenylsulfonyloxy-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate
[153215-70-4]	4610	(-)-FEBV
[153215-71-5]	4600	(-)-TEBV
[153436-54-5]	5210	PD 153035
[154361-50-9]	2953	Xeloda
[155204-26-5]	3250	MPPF
[155204-27-6]	3240	Nitro-MPPF
[155204-28-7]	3200	WAY 100634
[155797-99-2]	4130	CITFP
[155798-01-9]	4110	CITFE
[157809-85-3]	1600	(R)-N-Desmethyl PK11195
[157809-86-4]	1620	(S)-N-Desmethyl PK11195
[157891-91-3]	2030	3-O-Trityl-diprenorphine
[157891-92-4]	2000	3-O-Trityl-6-O-desmethyl-diprenorphine
[157891-93-5]	2055	3-O-Trityl-6-O-desmethyl-buprenorphine
[158111-10-5]	4040	TMS-CT
[159701-28-7]	1592	D-threo-N-NPS-Ritalinic acid
[160388-33-0]	1928	FFNP standard
[160754-76-7]	3550	CNS 5161
[160754-78-9]	3540	Desmethyl-CNS 5161
[1613520-76-5]	5150	[¹⁸ F]Lansoprazole Precursor
[161370-66-7]	3191	(S)-tert-Butyl 2-((tert-butoxycarbonyl) amino)-4-Iodobutanoate
[161532-22-5]	2800	3-O-Benzyl-naltrindole
[161552-03-0]	9860	Cyclo-RGDfK
[163714-99-6]	1430	FETNIM precursor
[166173-74-6]	1550	Tosyl-Fallypride
[166173-78-0]	1560	Fallypride
[166173-81-5]	1580	Desmethoxyfallypride
[16709-25-4]	6510	α-Methyl-L-tryptophan
[167548-65-4] (free base)	4360	(+)-McN 5652 Thiobutyrate
[16808-86-9]	2010	Diprenorphine hydrochloride
[168266-51-1]	3530	GR 205171 Dihydrochloride
[168266-90-8]	3510	GR 205171
[16853-85-3]	801	Lithium Aluminium Hydride in THF bulk
[16853-85-3]	802	Lithium aluminium hydride (0.1 M in THF)
[16853-85-3]	803	Lithium aluminium hydride (0.25 M in THF)
[16853-85-3]	804	Lithium aluminium hydride (0.05 M in THF)
[16853-85-3]	832	Lithium aluminium hydride (0.1 M in THF)
[170465-14-2]	1370	N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannyl-phenethylamine
[170953-68-1]	1371	N-Trifluoroacetyl-3,4-di-tert-butoxycarbonyloxy-6-trimethylstannyl-phenethylamine
[171720-95-9]	2874	L-FEAU
[173039-10-6]	9510	PMPA
[17351-62-1]	808	Tetrabutylammonium Hydrogen Carbonate (0.075 M) - Aqueous solution, stabilized with ethanol
[174618-11-2]	1138	Me-4-FDG precursor
[177714-21-5]	1900	MMSE
[17773-10-3]	6170	Choline iodide
[177943-89-4]	9772	DOTA-TATE acetate (GMP)
[178804-18-7]	5100	6-OH-BTA-0
[178804-18-7]	5101	6-OH-BTA-0 (GMP)
[179756-59-3]	3270	MPT

[180045-77-6]	4100	CITFES
[18037-10-0]	2873	Bis(trimethylsilyl)cytosine
[180468-34-2]	4210	Altropane
[180468-34-2] (free base)	4211	Altropane hydrochloride
[180574-25-8]	3500	Desmethyl-GR 205171
[182482-12-8] (net peptide)	9902	[Lys ⁵ (Boc)]lanreotide acetate
[186022-53-7]	2390	Desmethylocarfentanil acid
[186381-39-5] (free base)	4122	CITTP Tosylate
[188112-92-7]	3700	Desmethyl-SCH-442416
[188680-65-1]	4165	PE2I tin precursor
[188680-71-9]	4170	PE2I
[189192-18-5]	1840	MDL105725
[189950-11-6] (free base)	7400	TRODAT
[191474-13-2]	1210	Anhydrothymidine-FLT precursor
[19262-68-1]	1593	D-threo-Methylphenidate hydrochloride
[19263-21-9]	6183	2-Bromoethyl tosylate
[194086-61-8]	4910	Chlorothiadiazine
[1984-15-2]	7160	MDP
[199470-02-5]	2061	(R)-(+)-Normethylcarbamoyl-GR 103545
[199734-70-8]	1453	2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate
[199800-19-6]	1454	N-(2-Fluoroethyl)-2-(2-nitroimidazol-1-yl)acetamide
[200557-18-2]	3751	CPFPX
[203398-46-3]	1342	TriBoc-L-DOPA ethyl ester
[204318-14-9]	9702	DOTATOC (GMP)
[204777-78-6]	9500	Fmoc-Lys(ivDde)-OH
[204977-05-9]([¹⁸ F]FETNIM)	1440	FETNIM
[205934-45-8]	1609	(S)-PK 11195
[205934-46-9]	1610	(R)-PK11195
[206067-83-6]	2970	FHBG
[206067-84-7]	2960	Tosyl-FHBG
[209530-92-7]	3320	Nitro-AP
[209530-93-8] (free base)	3340	FAP tartrate
[213136-14-2]	2890	FTAU
[213187-44-1] (net peptide)	9831	DOTA-Lanreotide acetate
[21373-30-8]	1332	6-Hydroxy-D,L-DOPA
[213764-92-2]	3310	IAP
[213766-21-3]	3300	TAP
[216867-99-1] (net peptide)	9600	Ubiquicidin (29-41) acetate
[219638-33-2] (cation)	2958	5-Fluorouracil precursor
[219859-83-3]	2130	Propionic acid piperidin-4-yl ester hydrochloride
[220793-03-3]	1451	1-(5-Deoxy-5-fluoro- α -D-arabinofuranosyl)-2-nitroimidazole
[221132-62-3]	1480	(+)-Desmethyl-NNC112
[223463-90-9] (free base)	3071	D-FET hydrochloride
[223699-69-2]	4390	PMBAB
[22423-26-3]	1250	2,2'-Anhydrothymidine
[226084-96-4] (net peptide)	9760	TETA-Octreotide acetate
[233766-75-1]	3350	TMA-AP
[23418-85-1]	6301	1-Tosyloxy-3-butyne
[23745-86-0]	6210	Potassium fluoroacetate
[23978-09-8]	800	Cryptand 222
[24124-59-2]	6177	Bis(tosyloxy)methane
[2438-57-5]	2320	cis-4-Fluoro-L-proline

[24493-89-8]	3400	MHED hydrochloride
[250612-06-7] (net peptide)	9862	DOTA-RGDfK dimer acetate
[250612-47-6] (net peptide)	9861	Cyclo-RGDfK dimer trifluoroacetate
[2507-61-1]	2330	trans-4-Fluoro-L-proline
[252570-31-3]	4407	(2S,3S)-Desethylreboxetine
[25297-82-9]	6179	1,2-Bis(nosyloxy)ethane
[253307-72-1]	1653	PBR28 standard
[2536-36-9]	7600	16-Iodoheptadecanoic acid
[25526-93-6]	1219	FLT Ultra Pure
[25526-93-6]	1220	3'-Fluoro-thymidine (FLT)
[257943-19-4] (net peptide)	9721	HYNIC-TOC trifluoroacetate
[259145-56-7]	4370	(+)-McN 5652
[103729-16-4] (free base)	5020	DMEAN
[259739-01-0]	5000	DMTEAN
[260992-21-0]	2060	(S)-(-)-Normethylcarbamoyl-GR 103545
[262352-33-0]	4380	(-)-McN 5652
[103729-13-1] (free base)	3520	Desmethyl-GR 205171 Dihydrochloride
[262598-97-0]	4190	FECNT
[281667-94-5]	4230	Norbenztropine
[28404-87-7]	6141	Bromocholine bromide
[28508-20-5]	1200	Dimethoxybenzyl-FLT precursor
[290371-75-4]	9704	Y-DOTA-TOC
[293295-66-6]	9703	Ga-DOTA-TOC acetate
[293295-70-2]	7290	Cyclen
[294-90-6]	5200	Desmethyl-PD 153035
[295330-61-9]	4300	MASB
[296774-10-2]	4301	MASB (GMP)
[296774-10-2]	1459	NiATSM
[30193-04-5]	9774	[Tyr ³]Octreotate acetate
[302794-43-0] (net peptide)	2954	2',3'-Didehydro-3'-deoxythymidine
[3056-17-5]	1120	FDM
[31077-88-0]	1130	ACY-FDG
[31077-89-1]	4160	PE2I acid
[311351-26-5]	2871	5-Ethyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine
[31167-05-2]	6190	3-Fluoropropyltosylate
[312-68-5]	2950	2'-Deoxy-L-uridine
[31501-19-6]	3710	SCH-442416
[316173-57-6]	2210	L-Homocysteine thiolactone hydrochloride
[31828-68-9]	4900	Aminothiadiazine
[319002-53-4]	9705	Lu-DOTA-TOC
[321835-55-6] ([¹⁷⁷ Lu]-DOTA-TOC)	1770	(R)-Etomidate
[33125-97-2]	3390	Metaraminol bitartrate
[33402-03-8]	4200	Altropane acid
[335104-67-1]	4201	Altropane acid hydrochloride
[335104-67-1] (Altropane acid free amine)	2880	FTRU
[336881-26-6]	2869	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -L-ribofuranose
[339091-18-8]	7020	CNS 1261
[341032-67-5]	1108	6-Deoxy-6-fluoro-D-glucopyranose
[34168-77-9] pyranoside	7014	SGMIB Standard
[4536-08-7] open-chain		
[344791-53-3] (free base)		

[344791-59-9]	7015	SGMIB Precursor
[3466-75-9]	4730	(±)- α -Dihydrotetrabenazine
[347148-59-8]	6050	(R)-(-)-Desmethyl-Rolipram
[347148-60-1]	6040	(S)-(+)-Desmethyl-Rolipram
[348-67-4]	2229	D-Methionine
[366455-78-9] (net peptide)	9864	HYNIC-cyclo(RGDfK) trifluoroacetate
[38176-02-2]	5630	(+)-Verapamil hydrochloride
[383-50-6]	6184	2-Fluoroethyl tosylate
[39794-75-7]	6200	Ethyl (p-tosyloxy)acetate
[398497-81-9]	4150	2-FE-beta-CIT
[400885-40-7]	3000	N,O-Di-Boc-2-TMSn-L-tyrosine ethyl ester
[40968-70-5]	6173	DMMB
[41107-56-6]	2940	3'-Fluoro-2',3'-dideoxyuridine
[42567-91-9]	1328	3,4-Di-O-Pivaloyl-L-DOPA
[4298-17-3]	3190	3-Iodo- α -methyl-p-tyrosine
[43036-17-5]	5130	6-MeO-BTA-0
[432038-21-6] (free base)	4381	(+)-Fluoromethyl-McN 5652
[442-51-3]	1755	Harmine
[444717-20-8]	1190	DMTr-Nosyl-lyxothymidine
[444717-23-1]	1240	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine
[444717-23-1]	1241	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)
[445379-33-9]	1926	FFNP precursor
[454-29-5]	2205	D,L-Homocysteine
[459424-38-5]	6130	Fluoromethylcholine chloride
[4724-56-5]	6185	Bis(tosyl)-1,4-butanediol
[478037-15-9]	3050	TET
[478037-15-9]	3051	TET (GMP)
[478037-15-9]	3052	TET (GMP)
[478173-67-0]	3750	CPTPX
[479407-07-3]	6120	Fluoroethylcholine tosylate
[479407-08-4]	6160	Fluoroethylcholine chloride
[479642-48-3]	4132	TBSCT-FP
[481052-68-0] (free base)	3081	(L)-HET hydrochloride
[487-03-6]	1753	Harmol
[494775-35-8]	1450	1-(2,3-Diacetyl-5-tosyl-(α -D-arabinofuranosyl)-2-nitroimidazole
[500166-11-0]	9867	HYNIC-cyclo(RGDfK) dimer trifluoroacetate
[50370-56-4]	4000	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)tropane
[50372-80-0]	4060	(-)-2-beta-Carbomethoxy-3-beta-(phenyl)tropane
[50-89-5]	1290	Thymidine
[51570-69-5] (CMTMA cation)	4386	CMTMA
[5220-98-4]	4700	(±)-9-O-Desmethyl- α -dihydrotetrabenazine
[5221-18-1]	3035	Thyronamine Hydrochloride
[52331-22-3]	6181	2-Bromoethyl nosylate
[53152-21-9]	2056	Buprenorphine hydrochloride
[53786-10-0]	2700	4-(2-Keto-3-methyl-1-benzimidazoliny)l)piperidine
[54-42-2]	2949	IUdR
[54-49-9]	3380	Metaraminol (free base)
[5460-83-3]	1452	N-(2-Tosyloxyethyl)phthalimide
[5469-66-9]	6191	1,3-Propane-di-tosylate
[55612-21-0]	2922	FIRU
[56343-01-2]	7312	Disodium sulfosalicylate
[566169-93-5]	5140	6-OH-BTA-1 (free base)

[566170-03-4]	5110	6-MOMO-BTA-0
[566170-03-4]	5111	6-MOMO-BTA-0 (GMP)
[56632-83-8]	2930	FAC
[56649-48-0]	1780	(R)-Desethyl-Etomidate
[56649-49-1]	1782	(S)-Desethyl-Etomidate
[57775-29-8]	2540	(R,S)-Carazolol
[58-46-8]	4732	(±)-Tetrabenazine
[58931-63-8]	2120	Acetic acid 1-methyl-piperidin-4-yl ester hydrochloride
[58966-93-1]	7281	TACN
[590365-47-2]	5030	DMFEAN
[593287-40-2] (net peptide)	9715	DOTA-[Pro ¹ ,Tyr ⁴]bombesin (1-14)
[59-51-8]	2230	D,L-Methionine
[60168-37-8]	6174	BHTMEDA
[60239-18-1]	7300	DOTA
[6027-13-0]	2200	L-Homocysteine
[61413-54-5]	6000	Rolipram
[619300-53-7] (net peptide)	9712	DOTA-NOC acetate
[619300-53-7] (net peptide)	9716	DOTA-NOC acetate (GMP)
[62-74-8]	6211	Sodium fluoroacetate
[627490-01-1]	4310	DASB
[627490-01-1]	4311	DASB (GMP)
[627490-40-8] (free base)	4330	AFM standard
[6315-52-2]	6180	1,2-Bis(tosyloxy)ethane
[6337-59-3]	6186	1,4-Bis(tosyloxy)but-2-yne
[63618-91-7]	1455	ATSM
[63-68-3]	2220	L-Methionine
[6398-74-9]	7111	(Benzoylmercapto)acetic acid
[640749-61-7]	4394	FPyME standard
[640749-64-0]	4393	[¹⁸ F]FPyBrA/[¹⁸ F]FPyME precursor
[64219-77-8]	2140	Propionic acid 1-methyl-piperidin-4-yl ester hydrochloride
[65717-97-7]	7060	Disofenin
[6581-06-2]	2830	QNB
[660845-84-1]	4389	TBAB
[66134-67-6]	4392	SFB
[66392-64-1]	1760	(R)-Metomidate hydrochloride
[66392-65-2]	1762	(S)-Metomidate hydrochloride
[66516-09-4]	7110	MAG 3
[67018-85-3]	5600	Norverapamil
[673-68-7]	1456	PTSM
[67-48-1]	6150	Choline chloride
[676437-17-5]	1721	Tosyloxyethylflumazenil
[676437-19-7] ([¹⁸ F]FFMZ)	1730	Fluoroethylflumazenil
[676596-40-0]	7270	TFP-N-sucDf-Fe
[68341-09-3]	1457	CuATSM
[68844-77-9]	5165	Astemizole
[69123-94-0]	2900	FAU
[69123-98-4]	2910	FIAU
[69256-17-3]	2878	FMAU
[70838-44-7]	1230	5'-O-Benzoyl-2,3'-anhydrothymidine
[70838-44-7]	1231	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)
[71144-39-3]	1380	6-Fluorodopamine
[713135-14-9]	1570	Tosyl-Desmethoxyfallypride

[71861-83-1]	2840	Me-QNB
[721937-56-0] (net peptide)	9714	AMBA acetate
[7226-39-3]	1150	FDGal
[7288-28-0]	2872	5-Methyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine
[72955-96-5]	2511	(R,S)-Desisopropylcarazolol
[73736-50-2]	5166	O-Desmethyl Astemizole
[74-95-3]	6176	Dibromomethane
[754988-84-6]	4400	(2S,3S)-N-Boc-norethylreboxetine
[76330-71-7]	1810	Altanserin
[765890-24-2]	7030	TBS-CNS 1261
[76911-01-8]	6303	1-Tosyloxy-5-hexyne
[77758-50-0]	6302	1-Tosyloxy-4-pentyne
[777842-51-0]		
[293295-75-7] [⁶⁸ Ga]DOTA-TATE	9773	Ga-DOTA-TATE
[78266-06-5]	7050	Mebrofenin
[784-71-4]	2920	FUdR
[78709-81-6]	3010	2-Fluoro-tyrosine
[78755-81-4]	1710	Flumazenil
[78853-38-0]	3020	2-Iodo-tyrosine
[78859-33-3]	2530	(S)-Carazolol
[78859-34-4]	2520	(R)-Carazolol
[788824-64-6]	3036	3-Iodothyronamine Hydrochloride
[78887-70-4]	831	Pentadecylmagnesium bromide 0.5 M in diethyl ether
[79089-72-8]	1700	Desmethylflumazenil
[79465-83-1]	6500	Dimethyl-8-acetyl-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate
[79517-01-4]		
[83150-76-9] (net peptide)	9750	Octreotide acetate
[832724-21-7] (net peptide)	9816	[Pro ¹ ,Tyr ⁴]bombesin (1-14)
[83546-42-3]	2876	FEAU
[84225-95-6]	1520	Raclopride
[84226-04-0]	7500	S-(-)-BZM
[84226-06-2]	7510	S-(-)-IBZM
[84377-97-9]	1690	Nitromazenil
[84378-44-9]	1720	Flumazenil acid
[844699-84-9] (free base)	4320	AFM precursor
[845642-52-6]	3355	(+)-Flubatine standard
[845642-53-7]	3351	(-)-Flubatine standard
[845882-24-8]	3110	N,O-Di-Boc-2-TMSn-m-tyrosine ethyl ester
[848820-27-9] (net peptide)	9752	[NaI ³]Octreotide acetate
[849469-03-0]	3560	Desmethyl ABP688
[849469-03-0]	3561	Desmethyl ABP688 (GMP)
[851705-46-9]	3591	ISOF
[853759-55-4]	1350	TriBoc-Iodo-L-DOPA
[85416-73-5]	6010	(S)-(+)-Rolipram
[85416-75-7]	6020	(R)-(-)-Rolipram
[854750-33-7] (free base)	3061	FET hydrochloride
[85532-75-8]	1611	(R,S)-PK11195
[857335-91-2] (free base)	1502	(R,S)-O-Desmethylnaloxone hydrobromide
[857502-21-7]	1340	TriBoc-L-DOPA methyl ester
[858517-21-2]	1643	(+)-HNO hydrochloride
[858517-21-2]	1647	(+)-HNO hydrochloride (GMP)
[864063-10-5]	3572	FPEB standard
[86487-64-1]	1830	Setoperone

[865474-03-9]	2952	Nitro-Xeloda
[86783-82-6] (cyclic form)	1100	FDG
[29702-43-0] (aldehyde form)		
[872469-60-8]	7320	BPAMD
[874471-23-5]	3260	Desmethyl-MPT
[87862-25-7]	7001	MIBG Hemisulfate (GMP)
[87862-25-7]	7000	MIBG Hemisulfate
[80663-95-2] (free base)		
[879368-41-9]	3720	Desmethyl-MK-8278
[88043-21-4]	2300	N-Boc-trans-4-tosyloxy-L-proline methyl ester
[88547-38-0]	2550	(S)-N-Desisopropylpropranolol
[888009-94-7]	6307	Tosyl-propargyl-triethylene glycol
[899808-81-2]	1109	6-FDG precursor
[904892-57-5]	2420	Fluoroethyl-Carfentanil
[905963-70-4]	1646	(+)-F-PHNO
[909024-55-1] (net peptide)	9863	DOTA-cyclo(RGDfK) acetate
[91111-12-5]	6351	(S)-O-Tosyl-1,2-Epoxybutanol
[913820-71-0] (free amino acid)	2321	cis-4-Fluoro-D-proline hydrochloride
[91917-65-6]	1680	Azidomazenil
[92051-23-5]	100	Mannose Triflate, ultra pure
[92051-23-5]	101	Mannose Triflate, ultra pure
[92051-23-5]	102	Mannose Triflate, ultra pure
[92051-23-5]	105	Mannose Triflate PLUS, ultra pure
[92051-23-5]	107	Mannose Triflate PLUS, ultra pure
[922175-70-0] (net peptide)	9790	Galacto-RGD
[924298-51-1]	3570	ABP688
[92817-10-2]	1910	16 α -Fluoroestradiol
[93504-92-8]	1280	DEMM
[935886-72-9] (net peptide)	9855	DOTA-NAPamide trifluoroacetate
[93639-12-4]	2750	Cyclopropyl-p-nitrophenyl ketone
[937025-28-0]	4383	FBAM precursor
[937025-29-1]	4384	FBAM standard
[93798-62-0]	7150	BMEDA
[943726-04-3]	6320	3-(4-Azidophenoxy)propyl methansulfonate
[945992-43-8]	3590	ISOM
[94886-04-1]	2110	Acetic acid piperidin-4-yl ester hydrochloride
[949091-68-3]	4173	FE-PE2I
[960403-07-0]	1790	(R)-Fluoroethyl-Etomidate
[97614-41-0]	2870	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -D-ribofuranose
[97672-34-9]	2879	α FMAU
[98598-82-4]	2400	Desmethylocarfentanil, sodium salt
[99705-65-4]	1645	(+)-PHNO hydrochloride
[99833-85-9]	1642	(+)-9-MeO-HNO hydrochloride

Tracer Index

List of tracers and ABX products related to.

Tracer	Product related to the tracer	Product number	Product use
(α -Aminoisobutyric acid)	rac [^{11}C]-AIB precursor	2340	Precursor for [^{11}C]-AIB
(α -Aminoisobutyric acid)	S-[^{11}C]-AIB precursor	2342	Precursor for [^{11}C]-AIB
6-FDG	6-Deoxy-6-fluoro-D-glucopyranose	1108	Reference standard for 6-[^{18}F]Fluoro-6-deoxy-D-glucose
ABP688	Desmethyl ABP688	3560	Precursor for [$^{11}\text{C}/^3\text{H}$]ABP688
ABP688	Desmethyl ABP688 (GMP)	3561	Precursor for [$^{11}\text{C}/^3\text{H}$]ABP688
ABP688	ABP688	3570	Reference standard for [$^{11}\text{C}/^3\text{H}$]ABP688
adenosine receptor	CPTPX	3750	Precursor for [^{18}F]CPFPX
adenosine receptor	CPFPX	3751	Reference standard for [^{18}F]CPFPX
AFM	AFM precursor	4320	Precursor for [^{11}C]AFM
AFM	AFM standard	4330	Reference standard for [^{11}C]AFM and [^{18}F]AFM
Alkylbenzenes	Cyclopropyl-p-nitrophenyl ketone	2750	Precursor for [^{18}F]-labelled building block for different alkylbenzenes
Altanserin	Nitro-Altanserin	1800	Precursor for [^{18}F]Fluoro-Altanserin
Altanserin	Altanserin	1810	Reference standard for [^{18}F]Fluoro-Altanserin
Altropane	Altropane acid	4200	Precursor for [^{11}C]Altropane
Altropane	Altropane acid hydrochloride	4201	Precursor for [^{11}C]Altropane
Altropane	Altropane	4210	Reference standard for [^{11}C]Altropane
Altropane	Altropane hydrochloride	4211	Reference standard for [^{11}C]Altropane
AMBA	AMBA acetate	9714	Reference standard for [^{11}C]Altropane
AMBA	NODAGA-AMBA trifluoroacetate	9814	Reference standard for [^{11}C]Altropane
AMBA	NOTA-AMBA trifluoroacetate	9815	Reference standard for [^{11}C]Altropane
AMP / AChE	Acetic acid piperidin-4-yl ester hydrochloride	2110	Precursor for [^{11}C]AMP
AMP / AChE	Acetic acid 1-methyl-piperidin-4-yl ester hydrochloride	2120	Reference standard for [^{11}C]AMP
Androstanone	TNB-Androstanone	1919	Precursor [^{18}F]17 β -Hydroxy-7 α -fluoro-5 α -androstan-3-one
antibodies	TFP-N-sucDf-Fe	7270	Precursor for mAb-N-sucDf- ^{89}Zr
Arylsulfonate	1,2-Bis(nosyloxy)ethane	6179	Precursor for 1-[^{18}F]Fluoro-2-nosyloxy-ethane
ASEM	ASEM precursor	3371	Precursor for [^{18}F]ASEM
Astemizole	Astemizole	5165	Reference standard for [^{11}C]Astemizole
Astemizole	O-Desmethyl Astemizole	5166	Precursor for [^{11}C]Astemizole and [^{18}F]Fluoroethyl-astemizole
ATSM	ATSM	1455	Complexation agent for [^{64}Cu]-Labelling
ATSM	NiATSM	1459	Reference standard for [^{64}Ni]NiATSM
Benzamide	ISOM	3590	Precursor for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[^{18}F]fluoro-ethoxy)-5-methyl-benzamide
Benzamide	ISOF	3591	Reference standard for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[^{18}F]fluoro-ethoxy)-5-methyl-benzamide
benzodiazepine receptor	(R)-N-Desmethyl PK11195	1600	Precursor for (R)-[N-Methyl- ^{11}C]PK11195
benzodiazepine receptor	(S)-PK 11195	1609	Reference standard for analytical detection of (S)-[N-Methyl- ^{11}C]PK11195.
benzodiazepine receptor	(R)-PK11195	1610	Reference standard for (R)-[N-Methyl- ^{11}C]PK11195
benzodiazepine receptor	(R,S)-PK11195	1611	Reference standard for (R,S)-[N-Methyl- ^{11}C]PK11195
benzodiazepine receptor	(S)-N-Desmethyl PK11195	1620	Precursor for (S)-[N-Methyl- ^{11}C]PK11195
benzodiazepine receptor	(R,S)-N-Desmethyl PK11195	1640	Precursor for (R,S)-[N-Methyl- ^{11}C]PK11195
Benztropine	Norbenztropine	4230	Precursor for [^{11}C]Benztropine
Benztropine	Benztropine Mesylate	4231	Reference standard for [^{11}C]Benztropine
beta-CFT	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)tropane	4000	Reference standard for [^{11}C]-beta-CFT
beta-CFT	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropine	4020	Precursor for [^{11}C]beta-CFT
beta-CIT	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)tropane	4030	Reference standard for [^{11}C]beta-CIT
beta-CIT	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)nortropine	4050	Precursor for [^{11}C]beta-CIT
beta-CIT ester	beta-CIT acid	4140	Precursor for 2-[^{18}F]Fluoroethyl-beta-CIT (ester)
beta-CIT ester	2-FE-beta-CIT	4150	Reference standard for 2-[^{18}F]Fluoroethyl-beta-CIT (ester)

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Tracer	Product related to the tracer	Product number	Product use
beta-CITFE	CITFES	4100	Precursor for [¹¹ C]beta-CITFE
beta-CITFE	CITFE	4110	Reference standard for [¹⁸ F]beta-CITFE Reference standard for [¹¹ I]beta-CITFE
beta-CITFP	CITTP Tosylate	4122	Precursor for [¹⁸ F]beta-CITFP
beta-CITFP	CITFP	4130	Reference standard for [¹⁸ F]beta-CITFP Reference standard for [¹¹ I]beta-CITFP
beta-CITFP	TBSCT-FP	4132	Precursor for [¹²³ I]beta-CITFP
beta-CPT	(-)-2-beta-Carbomethoxy-3-beta-(phenyl)tropane	4060	Reference standard for [¹¹ C]-beta-CPT
BFE	2-Bromoethyl nosylate	6181	Precursor for [¹⁸ F]BFE
BFE	2-Bromoethyl triflate	6182	Precursor for [¹⁸ F]BFE
BFE	2-Bromoethyl tosylate	6183	Precursor for [¹⁸ F]BFE
BMP / AChE	Butyric acid piperidin-4-yl ester hydrochloride	2150	Precursor for [¹¹ C]BMP
BMP / AChE	Butyric acid 1-methyl-piperidin-4-yl ester hydrochloride	2160	Reference standard for [¹¹ C]BMP
BPAMD	BPAMD	7320	Precursor for radiolabelled BPAMD
Buprenorphine	3-O-Trityl-6-O-desmethyl-buprenorphine	2055	Precursor for 6-O-[¹¹ C]-buprenorphine
Buprenorphine	Buprenorphine hydrochloride	2056	Reference standard for 6-O-[¹¹ C]-buprenorphine
Carazolol	(S)-Desisopropylcarazolol	2510	Precursor for (S)-[¹¹ C]Carazolol
Carazolol	(R,S)-Desisopropylcarazolol	2511	Precursor for (R,S)-[¹¹ C]Carazolol
Carazolol	(S)-Carazolol	2530	Reference standard for (S)-[¹¹ C]Carazolol
Carazolol	(R)-Desisopropylcarazolol	2500	Precursor for (R)-[¹¹ C]Carazolol
Carazolol	(R)-Carazolol	2520	Reference standard for (R)-[¹¹ C]Carazolol
Carazolol	(R,S)-Carazolol	2540	Reference standard for [¹¹ C]Carazolol
Carfentanil	Desmethylocarfentanil acid	2390	Precursor for [¹¹ C]Carfentanil
Carfentanil	Desmethylocarfentanil, sodium salt	2400	Precursor for [¹¹ C]Carfentanil
Carfentanil	Fluoroethyl-Carfentanil	2420	Reference standard for [¹⁸ F]Fluoroethylcarfentanil
Carfentanil	Fluoroethyl-Carfentanil hydrochloride	2421	Reference standard for [¹⁸ F]Fluoroethylcarfentanil
CFT	TMS-CT	4040	Precursor for [¹⁸ F]CFT
CFT	TBS-CT	4041	Precursor for [¹⁸ F]CFT
CGP 12177	(S)-1-(2-Amino-3-nitrophenoxy)-3-tert-butylamino-propan-2-ol	2590	Precursor for [¹¹ C]CGP 12177
Chelator	TACN	7281	Chelator for radiometals
Chelator	PrP9	7284	Bifunctional chelating agent
Chelator	HBED-CC-tris(tBu)ester	7330	Bifunctional chelating agent
Chelator	HBED-CC-di(tBu)ester	7331	Bifunctional chelating agent
Choline	Dimethylaminoethanol	6100	Precursor for [¹¹ C]Choline
Choline	Fluoroethylcholine tosylate	6120	Reference standard for [¹⁸ F]Fluoroethylcholine
Choline	Fluoromethylcholine chloride	6130	Reference standard for [¹⁸ F]Fluoromethylcholine
Choline	Fluoromethylcholine bromide	6140	Reference standard for [¹⁸ F]Fluoromethylcholine
Choline	Bromocholine bromide	6141	Reference standard for byproduct of [¹⁸ F]Fluoromethylcholine synthesis
Choline	Choline chloride	6150	Reference standard for [¹¹ C]Choline
Choline	Fluoroethylcholine chloride	6160	Reference standard for [¹⁸ F]Fluoroethylcholine
Choline	Choline iodide	6170	Reference standard for [¹¹ C]Choline
Choline	DMMB	6173	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
Choline	BHTMEDA	6174	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
Click-Reaction	DBCO-SCN	6221	Reagent for Copper-free Click Reaction
CNS 1261	CNS 1261	7020	Reference standard for [¹¹ I]CNS 1261
CNS 1261	TBS-CNS 1261	7030	Precursor for [¹¹ I]CNS 1261
CNS 5161	Desmethyl-CNS 5161	3540	Precursor for [¹¹ C]CNS 5161
CNS 5161	CNS 5161	3550	Reference standard for [¹¹ C]CNS 5161
CPFPX	CPTPX	3750	Precursor for [¹⁸ F]CPFPX
CPFPX	CPFPX	3751	Reference standard for [¹⁸ F]CPFPX
Cryptand	Cryptand 222	800	Aminopolyether used to dissolve K ⁺ salts in nucleophilic [¹⁸ F]labelling reactions
CuATSM	CuATSM	1457	Reference standard for [⁶⁴ Cu]CuATSM
Cu-Labeling	ATSM	1455	Complexation agent for [⁶⁴ Cu]-Labeling
Cu-Labeling	PTSM	1456	Complexation agent for [⁶⁴ Cu]-Labeling
Cyclen	Cyclen	7290	
Cyclo-RGDfK	Cyclo-RGDfK	9860	Integrin targeting sequence.

Tracer	Product related to the tracer	Product number	Product use
Cyclo-RGDfK	Cyclo-RGDfK dimer trifluoroacetate	9861	Integrin targeting sequence.
cysteine-bearing peptides/proteins	6-O-Tosyloxyethyl-CBT	5149	Precursor for [¹⁸ F]-labeling of N-terminal cysteine-bearing peptides and proteins
D2 receptor	FLB 457	1540	Reference standard for [¹¹ C]FLB 457
DAOTA-octreotate	DOTA-TATE acetate (GMP)	9772	Precursor for radiolabelled DOTA-[Tyr ³]octreotate
DASB	MASB	4300	Precursor for [¹¹ C]DASB
DASB	MASB (GMP)	4301	Precursor for [¹¹ C]DASB
DASB	DASB	4310	Reference standard for [¹¹ C]DASB
DASB	DASB (GMP)	4311	Reference standard for [¹¹ C]DASB
Dihydrotetrabenazine	(+)-beta-Dihydrotetrabenazine	4731	
Dihydrotetrabenazine	(+)-Tetrabenazine	4732	Reference standard for [¹¹ C]Tetrabenazine
Dihydrotetrabenazine	(+)-9-O-Desmethyl-tetrabenazine	4733	Precursor for [¹¹ C]Tetrabenazine
Diprenorphine	3-O-Trityl-6-O-desmethyl-diprenorphine	2000	Precursor for [¹¹ C]Diprenorphine
Diprenorphine	Diprenorphine hydrochloride	2010	Reference standard for [¹¹ C]Diprenorphine
Diprenorphine	Diprenorphine	2020	Reference standard for [¹¹ C]Diprenorphine
Diprenorphine	3-O-Trityl-diprenorphine	2030	Reference standard for byproduct of [¹¹ C]Diprenorphine synthesis
Diprenorphine	6-O-Fluoroethyl-6-O-desmethyl-3-O-trityl-diprenorphine	2050	Reference standard for byproduct of [¹⁸ F]Fluoroethyl-diprenorphine synthesis
Diprenorphine	6-O-Fluoroethyl-6-O-desmethyl-diprenorphine	2040	Reference standard for [¹⁸ F]Fluoroethyl-diprenorphine
DOPA	OMFD precursor ABX004	1363	Precursor for [¹⁸ F]OMFD
DOPA	OMFD	1369	Reference standard for [¹⁸ F]OMFD
Dopamine Receptor	S-(-)-BZM	7500	Precursor for S-(-)-[¹²³ / ¹²⁵ I]IBZM
Dopamine Receptor	S-(-)-IBZM	7510	Reference standard for S-(-)-[*I]IBZM
DOTA	DOTA	7300	Cation complexation agent
DOTA	DOTA-Substance P	9960	Precursor for radiometal-labelled neurokinin receptor targeted peptides
DOTA-bombesin	DOTA-[Pro ¹ , Tyr ⁴]bombesin (1-14)	9715	Precursor for radiolabelled DOTA-[Pro ¹ , Tyr ⁴]bombesin (1-14)
DOTAET	DOTAET	7301	Cation complexation agent
DOTA-Lanreotide	DOTA-Lanreotide acetate	9831	Precursor for radiolabelled DOTA-Lanreotide
DOTA-NAPamide	DOTA-NAPamide trifluoroacetate	9855	Precursor for radiolabelled DOTA-NAPamide
DOTA-NOC	DOTA-NOC acetate	9712	Precursor for radiolabelled DOTA-NOC
DOTA-NOC	DOTA-NOC acetate (GMP)	9716	Precursor for radiolabelled DOTA-NOC
DOTA-NOC	Ga-DOTA-NOC	9717	Reference standard for [⁶⁸ Ga]DOTA-NOC
DOTA-RGD	DOTA-cyclo(RGDfK) acetate	9863	Precursor for radiometal-labelled DOTA-RGD.
DOTA-Sargastrin	DOTA-Sargastrin	9857	Precursor for radiometal-labelled DOTA-Sargastrin
DOTA-TATE	Ga-DOTA-TATE	9773	Reference standard for [⁶⁸ Ga]DOTA-TATE
DOTA-TOC	DOTATOC (GMP)	9702	Precursor for radiolabelled DOTA-TOC
DOTA-TOC	Ga-DOTA-TOC acetate	9703	
DOTA-TOC	Y-DOTA-TOC	9704	Reference Standard for 90Y-DOTA-TOC
DOTA-TOC	Lu-DOTA-TOC	9705	Reference standard for ¹⁷⁷ Lu-DOTA-TOC
DTBZ	(+)-9-O-Desmethyl- α -dihydrotetrabenazine	4700	Precursor for [¹¹ C]DTBZ
DTBZ	(+)-9-O-Desmethyl- α -dihydrotetrabenazine	4710	Precursor for (+)-[¹¹ C]DTBZ
DTBZ	(-)-9-O-Desmethyl- α -dihydrotetrabenazine	4720	Precursor for (-)-[¹¹ C]DTBZ
DTBZ	(+)- α -Dihydrotetrabenazine	4730	Reference standard for [¹¹ C]Dihydrotetrabenazine
DTPA-TOC	DTPA-TOC trifluoroacetate	9744	Precursor for radiolabelled DTPA-TOC
EDTMP	EDTMP	7165	Ligand for radiolabelling
EFG receptor	Desmethyl-PD 153035	5200	Precursor for [Methoxy- ¹¹ C]PD 153035
EFG receptor	PD 153035	5210	Reference standard for [Methoxy- ¹¹ C]PD 153035
Epidepride	Tin-epidepride precursor	1521	Precursor for [¹²³ I]Epidepride and [¹²⁵ I]Epidepride
Epidepride	Epidepride	1522	Reference standard for [¹²³ I]Epidepride and [¹²⁵ I]Epidepride
Estradiol	MMSE	1900	Precursor for 16 α -[¹⁸ F]Fluoroestradiol
Estradiol	16 α -Fluoroestradiol	1910	Reference standard for 16 α -[¹⁸ F]Fluoroestradiol
Ethionine	L-Homocysteine thiolactone hydrochloride	2210	Precursor for L-[¹¹ C]Methyl-methionine, - ethionine, and - propionine
Ethylcholine	Fluoroethylcholine tosylate	6120	Reference standard for [¹⁸ F]Fluoroethylcholine
Ethylcholine	Fluoroethylcholine chloride	6160	Reference standard for [¹⁸ F]Fluoroethylcholine
Ethylcholine	1,2-Bis(tosyloxy)ethane	6180	Precursor for [¹⁸ F]Fluoroethylcholine
Etomidate	(R)-Etomidate	1770	Reference standard for [¹¹ C]Etomidate
FAAU	FAAU	2890	Precursor for 5-[¹³¹ I]FAIU and 5-[²¹¹ At]FAAU

Tracer	Product related to the tracer	Product number	Product use
FAC	Bis(trimethylsilyl)cytosine	2873	Precursor 2 for [¹⁸ F]FAC
FAC	FAC	2930	Reference standard for [¹⁸ F]FAC
FAC	αFAC	2931	Analytical standard for validation of [¹⁸ F]FAC
Fallypride	Tosyl-Fallypride	1550	Precursor for [¹⁸ F]Fallypride
Fallypride	Fallypride	1560	Reference standard for [¹⁸ F]Fallypride
Fallypride	Tosyl-Desmethoxyfallypride	1570	Precursor for [¹⁸ F]Desmethoxyfallypride
Fallypride	Desmethoxyfallypride	1580	Reference standard for [¹⁸ F]Desmethoxyfallypride
FAP	Nitro-AP	3320	Precursor for [¹⁸ F]FAP
FAP	TMA-AP	3350	Precursor for [¹⁸ F]FAP
FAP	FAP tartrate	3340	Reference standard for [¹⁸ F]FAP
FAU	FAU	2900	Reference standard for 2'-[¹⁸ F]FAU
FAZA	1-(2,3-Diacetyl-5-tosyl-(α-D-arabinofuranosyl)-2-nitroimidazole	1450	Precursor for [¹⁸ F]FAZA
FAZA	1-(5-Deoxy-5-fluoro-α-D-arabinofuranosyl)-2-nitroimidazole	1451	Reference standard for [¹⁸ F]FAZA
FB	TBAB	4389	Precursor for [¹⁸ F]FB
FB	PMBAB	4390	Precursor for [¹⁸ F]FB
FB	FB precursor	4391	Precursor for [¹⁸ F]FB
FB	4-Formyl-N,N,N-Trimethylanilinium triflate	9850	Precursor for 4-[¹⁸ F]Fluorobenzaldehyde
FBA	CPTMA	4385	Precursor for [¹⁸ F]FBA, [¹⁸ F]FBBA and [¹⁸ F]FBAPM
FBAM	FBAM precursor	4383	Precursor for [¹⁸ F]FBAM
FBAM	FBAM standard	4384	Reference standard for [¹⁸ F]FBAM
FBAPM	CPTMA	4385	Precursor for [¹⁸ F]FBA, [¹⁸ F]FBBA and [¹⁸ F]FBAPM
FBBA	CPTMA	4385	Precursor for [¹⁸ F]FBA, [¹⁸ F]FBBA and [¹⁸ F]FBAPM
FBEM	FBEM precursor	4398	Precursor for [¹⁸ F]FBEM
FBEM	FBEM standard	4399	Reference standard for [¹⁸ F]FBEM
F-Choline	Dimethylaminoethanol	6100	Precursor for [¹¹ C]Choline
F-Choline	Fluoromethylcholine chloride	6130	Reference standard for [¹⁸ F]Fluoromethylcholine
F-Choline	Fluoromethylcholine bromide	6140	Reference standard for [¹⁸ F]Fluoromethylcholine
F-Choline	Bromocholine bromide	6141	Reference standard for byproduct of [¹⁸ F]Fluoromethylcholine synthesis
F-Choline	Choline chloride	6150	Reference standard for [¹¹ C]Choline
F-Choline	Choline iodide	6170	Reference standard for [¹¹ C]Choline
F-Choline	DMMB	6173	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
F-Choline	BHTMEDA	6174	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
F-Choline	Dibromoethane	6175	
F-Choline	Dibromomethane	6176	
FDDNP	DMTEAN	5000	Precursor for [¹⁸ F]FDDNP
FDDNP	DFEAN	5010	Precursor for [¹¹ C]FDDNP
FDDNP	DMEAN	5020	Precursor for [¹⁸ F]FDDNP
FDDNP	DMFEAN	5030	Reference standard for [¹⁸ F]FDDNP
FDG	Mannose Triflate, ultra pure	100	Precursor for [¹⁸ F]FDG
FDG	Mannose Triflate, ultra pure	101	Precursor for [¹⁸ F]FDG
FDG	Mannose Triflate, ultra pure	102	Precursor for [¹⁸ F]FDG
FDG	Mannose Triflate PLUS, ultra pure	105	Precursor for [¹⁸ F]FDG
FDG	Mannose Triflate PLUS, ultra pure	107	Precursor for [¹⁸ F]FDG
FDG	FDG	1100	Reference standard for [¹⁸ F]FDG
FDG	6-FDG precursor	1109	Precursor for 6-[¹⁸ F]FDG
FDG	CIDG	1110	Reference standard for byproduct of [¹⁸ F]FDG synthesis
FDG	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose	1131	TLC Standard for Testing of Radiochemical Purity of [¹⁸ F]FDG according to Ph. Eur. 6.2, 1325
FDG byproduct	FDM	1120	Reference standard for byproduct of [¹⁸ F]FDG synthesis
FDG byproduct	ACY-FDG	1130	Reference standard for byproduct of [¹⁸ F]FDG synthesis

Tracer	Product related to the tracer	Product number	Product use
FDGal	Talose Triflate	1140	Precursor for [¹⁸ F]FDGal
FDGal	FDGal	1150	Reference standard for [¹⁸ F]FDGal
FDHT	FDHT precursor	1916	Precursor for [¹⁸ F]FDHT
FDHT	FDHT standard	1918	Reference standard for [¹⁸ F]FDHT
FDM	Glucose Triflate	1117	Precursor for [¹⁸ F]FDM
FDM	MBETG	1118	Precursor for [¹⁸ F]FDM
FDM	MBBTG	1119	Precursor for [¹⁸ F]FDM
FDOPA	6-Trimethylstannyl-L-DOPA	1300	Stannylated precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	6-Trimethylstannyl-D,L-DOPA	1302	Precursor for 6-[¹⁸ F]Fluoro-D,L-DOPA
FDOPA	6-Trimethylstannyl-D-DOPA	1303	Precursor for 6-[¹⁸ F]Fluoro-D-DOPA
FDOPA	6-Fluoro-L-DOPA hydrochloride	1310	Reference standard for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	6-Fluoro-D,L-DOPA hydrochloride	1311	Reference standard for 6-[¹⁸ F]Fluoro-D,L-DOPA
FDOPA	F-L-DOPA pinacol boronate precursor	1312	Nucleophilic Precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	DiBoc-Iodo-L-DOPA	1320	Precursor for 6-[¹²³ I]Iodo-L-DOPA
FDOPA	3,4-Di-O-Pivaloyl-L-DOPA	1328	Precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	4-O-Pivaloyl-L-DOPA Hydrochloride	1329	Precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	4-O-Pivaloyl-L-DOPA	1330	Precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	6-Hydroxy-D,L-DOPA	1332	Reference standard for byproduct of 6-[¹⁸ F]Fluoro-L-DOPA synthesis
FDOPA	Nucleophilic F-L-DOPA precursor	1335	Nucleophilic precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	n.c.a. Nucleophilic F-L-DOPA precursor	1336	n.c.a. Nucleophilic Precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	6-Nitro-L-DOPA hydrogensulfate	1337	Reference standard for byproduct of nucleophilic 6-[¹⁸ F]fluoro-L-DOPA synthesis
FDOPA	6-Nitro-Formyl-DOPA HCl	1338	Reference standard for byproduct of nucleophilic 6-[¹⁸ F]fluoro-L-DOPA synthesis
FDOPA	6-Fluoro-Formyl-DOPA HCl	1339	Reference standard for byproduct of nucleophilic 6-[¹⁸ F]fluoro-L-DOPA synthesis
FDOPA	TriBoc-L-DOPA methyl ester	1340	Stannylated precursor for 6-[¹⁸ F]Fluoro-L-DOPA
FDOPA	TriBoc-D,L-DOPA ethyl ester	1341	Analytical standard for validation of 6-[¹⁸ F]Fluoro-L-DOPA synthesis
FDOPA	TriBoc-L-DOPA ethyl ester	1342	[¹⁸ F]Fluoro-L-DOPA synthesis
FDOPA	TriBoc-Iodo-L-DOPA	1350	Precursor for 6-[^{123/125} I]Iodo-DOPA
FEAU	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -L-ribofuranose	2869	Precursor 1 for [¹⁸ F]L-FEAU and [¹⁸ F]L-FMAU
FEAU	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -D-ribofuranose	2870	Precursor 1 for [¹⁸ F]FEAU and [¹⁸ F]FMAU
FEAU	5-Ethyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine	2871	Precursor 2 for [¹⁸ F]FEAU
FEAU	L-FEAU	2874	Reference standard for [¹¹ C]L-FEAU and [¹⁸ F]L-FEAU
FEAU	α -L-FEAU	2875	Analytical standard for validation of [¹¹ C]L-FEAU and [¹⁸ F]L-FEAU synthesis
FEAU	FEAU	2876	Reference standard for [¹¹ C]FEAU and [¹⁸ F]FEAU
FEAU byproduct	α FEAU	2877	Reference standard for byproduct of [¹¹ C]FEAU and [¹⁸ F]FEAU synthesis
FEBV	(-)-TEBV	4600	Precursor for [¹⁸ F]FEBV
FEBV	(-)-FEBV	4610	Reference standard for [¹⁸ F]FEBV
FECNT	Nor-beta-CCIT	4180	Precursor for [¹⁸ F]FECNT
FECNT	FECNT	4190	Reference standard for [¹⁸ F]FECNT
FEHTP Standard	5-FEHTP hydrochloride	6532	Reference standard for 5-[¹⁸ F]FEHTP
FE-PE2I	TEO-PE2I	4172	Precursor for [¹⁸ F]FE-PE2I
FE-PE2I	FE-PE2I	4173	Reference standard for [¹⁸ F]FE-PE2I
FEPPA	FEPPA precursor	1654	Precursor for [¹⁸ F]-FEPPA
FEPPA	FEPPA standard	1655	Reference standard for [¹⁸ F]-FEPPA
FET	TET	3050	Precursor for [¹⁸ F]FET
FET	TET (GMP)	3051	Precursor for [¹⁸ F]FET
FET	TET (GMP)	3052	Precursor for [¹⁸ F]FET
FET	FET hydrochloride	3061	Reference standard for [¹⁸ F]FET
FET	D-FET hydrochloride	3071	Reference standard for D-[¹⁸ F]FET
FETA	N-(2-Tosyloxyethyl)phthalimide	1452	Tosyl Precursor for [¹⁸ F]FETA (FETA-Precursor I)

Tracer	Product related to the tracer	Product number	Product use
FETA	2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate	1453	Tetrafluorophenyl-Precursor for [¹⁸ F]FETA (FETA-Precursor II)
FETA	N-(2-Fluoroethyl)-2-(2-nitroimidazol-1-yl)acetamide	1454	Reference standard for [¹⁸ F]FETA
FETNIM	FETNIM precursor	1430	Precursor for [¹⁸ F]FETNIM
FETNIM	FETNIM	1440	Reference standard for [¹⁸ F]FETNIM
FETO	(R)-Desethyl-Etomidate	1780	Precursor for [¹¹ C]Metomidate, [¹¹ C]Etomidate, and (R)-[¹⁸ F]FETO
FETO	(S)-Desethyl-Etomidate	1782	Precursor for [¹¹ C]Metomidate and [¹¹ C]Etomidate and (S)-[¹⁸ F]FETO
FETO	(R)-Fluoroethyl-Etomidate	1790	Reference standard for (R)-[¹⁸ F]FETO
FFMZ	Tosyloxyethylflumazenil	1721	Precursor for [¹⁸ F]FFMZ
FFMZ	Flumazenil acid	1720	Precursor for [¹⁸ F]FFMZ
FFMZ	Fluoroethylflumazenil	1730	Reference standard for [¹⁸ F]FFMZ
FFNP	FFNP precursor	1926	Precursor for [¹⁸ F]FFNP
FFNP	FFNP standard	1928	Reference standard for [¹⁸ F]FFNP
FHBG	Tosyl-FHBG	2960	Precursor for [¹⁸ F]FHBG
FHBG	FHBG	2970	Reference standard for [¹⁸ F]FHBG
FIAU	FIAU	2910	Reference standard for [^{124/125/131} I]FIAU
FIRU	FIRU	2922	Reference standard for 5-[^{123/125} I]FIRU
FLB 457	FLB 604	1530	Precursor for [¹¹ C]FLB 457
FLB 457	FLB 457	1540	Reference standard for [¹¹ C]FLB 457
FLIU	3'-Fluoro-2',3'-dideoxyuridine	2940	Precursor for 5-[¹⁸ F]FLIU
FLT	DMTr-lyxothymidine	1180	Precursor for [¹⁸ F]FLT
FLT	DMTr-Nosyl-lyxothymidine	1190	Precursor for [¹⁸ F]FLT
FLT	Dimethoxybenzyl-FLT precursor	1200	Precursor for [¹⁸ F]FLT
FLT	Anhydrothymidine-FLT precursor	1210	Precursor for [¹⁸ F]FLT
FLT	FLT Ultra Pure	1219	Reference standard for [¹⁸ F]FLT
FLT	3'-Fluoro-thymidine (FLT)	1220	Reference standard for [¹⁸ F]FLT
FLT	3'-Iodo-thymidine	1222	
FLT	5'-O-Benzoyl-2,3'-anhydrothymidine	1230	Precursor for [¹⁸ F]FLT
FLT	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)	1231	Precursor for [¹⁸ F]FLT
FLT	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	1240	Precursor for [¹⁸ F]FLT
FLT	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)	1241	Precursor for [¹⁸ F]FLT
FLT	2,2'-Anhydrothymidine	1250	Precursor for 2'-[¹⁸ F]Fluoro-thymidine
FLT	2'-Fluoro-thymidine	1260	Reference standard for 2'-[¹⁸ F]Fluoro-thymidine
FLT	3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine	1261	Reference standard for byproduct of [¹⁸ F]FLT synthesis
FLT byproduct	2',3'-Didehydro-3'-deoxythymidine	2954	Reference standard for byproduct of [¹⁸ F]FLT synthesis
Flubatine	(-)-Flubatine standard	3351	Reference standard for (-)-[¹⁸ F]Flubatine
Flubatine	(-)-Flubatine precursor	3353	Precursor for (-)-[¹⁸ F]Flubatine
Flubatine	(-)-Flubatine precursor (GMP)	3354	Precursor for (-)-[¹⁸ F]Flubatine
Flubatine	(+)-Flubatine standard	3355	Reference standard for (+)-[¹⁸ F]Flubatine
Flubatine	(+)-Flubatine precursor	3357	Precursor for (+)-[¹⁸ F]Flubatine
Flubatine	(+)-Flubatine precursor (GMP)	3358	Precursor for (+)-[¹⁸ F]Flubatine
Flumazenil	Nitromazenil	1690	Precursor for [¹⁸ F]Flumazenil
Flumazenil	Mazenil pinacol boronate	1691	Precursor for [¹⁸ F]Flumazenil
Flumazenil	Desmethylflumazenil	1700	Precursor for [¹¹ C]Flumazenil
Flumazenil	Flumazenil	1710	Reference standard for [¹¹ C]Flumazenil
Fluoroacetate	Ethyl (p-tosyloxy)acetate	6200	Precursor for [¹⁸ F]Fluoroacetate
Fluoroacetate	Potassium fluoroacetate	6210	Reference standard for [¹⁸ F]Fluoroacetate
Fluoroacetate	Sodium fluoroacetate	6211	Reference standard for [¹⁸ F]Fluoroacetate
Fluorobenzaldehyde	TBAB	4389	Precursor for [¹⁸ F]FB
Fluorobenzaldehyde	PMBAB	4390	Precursor for [¹⁸ F]FB
Fluorobenzaldehyde	FB precursor	4391	Precursor for [¹⁸ F]FB
Fluorobenzaldehyde	4-Formyl-N,N,N-Trimethylanilinium triflate	9850	Precursor for 4-[¹⁸ F]Fluorobenzaldehyde

Tracer	Product related to the tracer	Product number	Product use
Fluorobenzylguanidine	CMTMA	4386	Precursor for meta-[¹⁸ F]Fluorobenzylguanidine
Fluorobutyne	1-Tosyloxy-3-butyne	6301	Precursor for 1-[¹⁸ F]Fluoro-3-butyne
Fluorodopamine	N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannyl-phenethylamine	1370	Precursor for 6-[¹⁸ F]Fluorodopamine
Fluorodopamine	N-Trifluoroacetyl-3,4-di-tert-butoxycarbonyloxy-6-trimethylstannyl-phenethylamine	1371	Precursor for 6-[¹⁸ F]Fluorodopamine
Fluorodopamine	6-Fluorodopamine	1380	Reference standard for 6-[¹⁸ F]Fluorodopamine
Fluoroethyl arylsulfonates	2-Fluoroethyl tosylate	6184	Reference standard for 2-[¹⁸ F]Fluoroethyl tosylate
Fluoroethylcholine	DMMB	6173	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
Fluoroethylcholine	BHTMEDA	6174	Reference standard for byproduct of [¹⁸ F]Fluoroethylcholine synthesis
Fluorohexyne	1-Tosyloxy-5-hexyne	6303	Precursor for 1-[¹⁸ F]Fluoro-5-hexyne
Fluoromethyl tosylate	Fluoromethyl tosylate	6194	Reference standard for 1-[¹⁸ F]Fluoromethyl tosylate
Fluoromethyl tosylate	Bis(tosyloxy)methane	6177	Precursor for 1-[¹⁸ F]Fluoromethyl tosylate
Fluoropentyne	1-Tosyloxy-4-pentyne	6302	Precursor for 1-[¹⁸ F]Fluoro-4-pentyne
Fluoropropyltosylate	3-Fluoropropyltosylate	6190	Reference standard for 3-[¹⁸ F]Fluoropropyltosylate
Fluorothymidine	DMTr-lyxothymidine	1180	Precursor for [¹⁸ F]FLT
Fluorothymidine	DMTr-Nosyl-lyxothymidine	1190	Precursor for [¹⁸ F]FLT
Fluorothymidine	Dimethoxybenzyl-FLT precursor	1200	Precursor for [¹⁸ F]FLT
Fluorothymidine	Anhydrothymidine-FLT precursor	1210	Precursor for [¹⁸ F]FLT
Fluorothymidine	FLT Ultra Pure	1219	Reference standard for [¹⁸ F]FLT
Fluorothymidine	3'-Fluoro-thymidine (FLT)	1220	Reference standard for [¹⁸ F]FLT
Fluorothymidine	3'-Iodo-thymidine	1222	
Fluorothymidine	5'-O-Benzoyl-2,3'-anhydrothymidine	1230	Precursor for [¹⁸ F]FLT
Fluorothymidine	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)	1231	Precursor for [¹⁸ F]FLT
Fluorothymidine	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	1240	Precursor for [¹⁸ F]FLT
Fluorothymidine	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)	1241	Precursor for [¹⁸ F]FLT
Fluorothymidine	2,2'-Anhydrothymidine	1250	Precursor for 2'-[¹⁸ F]Fluoro-thymidine
Fluorothymidine	2'-Fluoro-thymidine	1260	Reference standard for 2'-[¹⁸ F]Fluoro-thymidine
Fluorothymidine	3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine	1261	Reference standard for byproduct of [¹⁸ F]FLT synthesis
Fluorouracil	5-Fluorouracil precursor	2958	Precursor for [¹⁸ F]-5-FU
Fluorouridine	Di-THP-nosyl-AUR	2921	Precursor for 2'-Deoxy-2'-[¹⁸ F]Fluorouridine
FMAU	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-L-ribofuranose	2869	Precursor 1 for [¹⁸ F]L-FEAU and [¹⁸ F]L-FMAU
FMAU	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl-α-D-ribofuranose	2870	Precursor 1 for [¹⁸ F]FEAU and [¹⁸ F]FMAU
FMAU	5-Methyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine	2872	Precursor 2 for [¹⁸ F]FMAU
FMAU	FMAU	2878	Reference standard for [¹⁸ F]FMAU and [¹¹ C]FMAU
FMAU	αFMAU	2879	Reference standard for byproduct of [¹⁸ F]FMAU and [¹¹ C]FMAU synthesis
FMISO	NITTP	1400	Precursor for [¹⁸ F]FMISO
FMISO	NITTP (GMP)	1401	Precursor for [¹⁸ F]FMISO
FMISO	NITTP (GMP)	1402	Precursor for [¹⁸ F]FMISO
FMISO	Fluoromisonidazole	1410	Reference standard for [¹⁸ F]FMISO
FMISO	Desmethylmisonidazole	1420	Reference standard for byproduct of [¹⁸ F]FMISO synthesis
FMT	N-Trifluoroacetyl-5-acetoxy-2-trimethylstannyl-phenylalanine ethyl ester	3100	Precursor for [¹⁸ F]FMT
FMT	N,O-Di-Boc-2-TMSn-m-tyrosine ethyl ester	3110	Precursor for [¹⁸ F]FMT

Tracer	Product related to the tracer	Product number	Product use
FMT	2-Fluoro-m-Tyrosine	3130	Reference standard for [¹⁸ F]FMT
FPEB	FPEB precursor	3571	Precursor for [¹⁸ F]FPEB
FPEB	FPEB standard	3572	Reference standard for [¹⁸ F]FPEB
FPSPPA	(S)-FPSPPA	2450	Precursor for (S)-[¹¹ C]-Methyl-FPSPPA
FPSPPA	(R)-FPSPPA	2460	Precursor for (R)-[¹¹ C]-Methyl-FPSPPA
FPSPPA	(S)-Methyl-FPSPPA	2470	Reference standard for (S)-[¹¹ C]-Methyl-FPSPPA
FPSPPA	(R)-Methyl-FPSPPA	2480	Reference standard for (R)-[¹¹ C]-Methyl-FPSPPA
FPyBrA	[¹⁸ F]FPyBrA/[¹⁸ F]FPyME precursor	4393	(2-Bromo-N-[3-(2-[¹⁸ F]fluoropyridin-3-yloxy)propylacetamide)
FPyKYNE	FPyKYNE	4397	Reference standard for [¹⁸ F]FPyKYNE
FPyKYNE	[¹⁸ F]FPyKYNE precursor	4396	
FPyME	[¹⁸ F]FPyBrA/[¹⁸ F]FPyME precursor	4393	(2-Bromo-N-[3-(2-[¹⁸ F]fluoropyridin-3-yloxy)propylacetamide)
FPyME	FPyME standard	4394	Reference standard for [¹⁸ F]FPyME
FTHA	Benzyl-14-(R,S)-tosyloxy-6-thiaheptadecanoate	2850	Precursor for [¹⁸ F]FTHA
FTHA	14-(R,S)-Fluoro-6-thiaheptadecanoic acid	2860	Reference standard for [¹⁸ F]FTHA
F-Tyrosine	N,O-Di-Boc-2-TMSn-L-tyrosine ethyl ester	3000	Precursor for 2-[¹⁸ F]Fluoro-L-tyrosine
F-Tyrosine	2-Fluoro-tyrosine	3010	Reference standard for 2-[¹⁸ F]Fluoro-L-tyrosine
FU	5-Fluorouracil precursor	2958	Precursor for [¹⁸ F]-5-FU
FUdR	FUdR	2920	Reference standard for 2'-[¹⁸ F]FUdR
Galactopyranoside	Me-4-FDG precursor	1138	Precursor for Me-4-[¹⁸ F]FDG
Galacto-RGD	Galacto-RGD	9790	Precursor for [¹⁸ F]Galacto-RGD
Galacto-RGD	Fluoropropionyl-Galacto-RGD	9800	Reference standard for [¹⁸ F]Galacto-RGD
Galactose	Talose Triflate	1140	Precursor for [¹⁸ F]FDGal
Galactose	FDGal	1150	Reference standard for [¹⁸ F]FDGal
Gallium citrate	Gallium Citrate (complex)	7520	Reference standard for [⁶⁷ Ga]Gallium citrate
GB 67	GB 99	2570	Precursor for [¹¹ C]GB 67
GB 67	GB 67	2580	Reference standard for [¹¹ C]GB 67
Glucopyranoside	Me-4-FDG precursor	1138	Precursor for Me-4-[¹⁸ F]FDG
glutamate carboxypeptidase	PMPA	9510	Inhibitor of glutamate carboxypeptidase 2 (GCP II/N-acetylated α -linked dipeptidase/NAALADase)
Glutamine / 11C-Glutamine	(S)-tert-Butyl 2-((tert-butoxycarbonyl)amino)-4-Iodobutanoate	3191	Precursor for [5- ¹¹ C]-Glutamine
GR 103545	(S)-(-)-Normethylcarbamoyl-GR 103545	2060	Precursor for (R)-(-)-[¹¹ C]-GR 103545
GR 103545	(R)-(+)-Normethylcarbamoyl-GR 103545	2061	Precursor for (S)-(+)-[¹¹ C]-GR 103545
GR 205171	Desmethyl-GR 205171	3500	Precursor for [¹¹ C]GR 205171
GR 205171	GR 205171	3510	Reference standard for [¹¹ C]GR 205171
GR 205171	Desmethyl-GR 205171 Dihydrochloride	3520	Precursor for [¹¹ C]GR 205171
GR 205171	GR 205171 Dihydrochloride	3530	Reference standard for [¹¹ C]GR 205171
GR 89696	Normethylcarbamoyl-GR 89696	2062	Precursor for [¹¹ C]-GR 89696
GR 89696	GR 89696 fumarate	2070	Reference standard for (R)-(-)-[¹¹ C]GR 103545 and (S)-(+)-[¹¹ C]GR 103545
GR 89696	(R)-(-)-GR103545 fumarate	2071	Reference standard for (R)-(-)-[¹¹ C]GR103545
GR 89696	(S)-(+)-GR89696 fumarate	2072	Reference standard for (S)-(+)-[¹¹ C]GR89696
GRP receptor	[Pro ¹ ,Tyr ⁴]bombesin (1-14)	9816	Synthetic GRP receptor ligand.
Guanidine	TMSnBG	7012	Precursor for n.c.a. [¹⁸ F]Metaiodobenzylguanidine
H3 receptor	Desmethyl-MK-8278	3720	Precursor for [¹¹ C]MK-8278
Harmine	Harmol	1753	Precursor for [¹¹ C]-Harmine
Harmine	Harmine	1755	Reference standard for [¹¹ C]-Harmine
HET	(L)-HET hydrochloride	3081	
HYNIC-Lanreotide	HYNIC-Lanreotide trifluoroacetate	9836	Precursor for radiolabelled HYNIC-Lanreotide
HYNIC-NOC	HYNIC-NOC trifluoroacetate	9730	Precursor for [^{99m} Tc]HYNIC-NOC
HYNIC-RGD	HYNIC-cyclo(RGDfK) trifluoroacetate	9864	Precursor for radiolabelled HYNIC-RGD.
HYNIC-TOC	HYNIC-TOC trifluoroacetate	9721	Precursor for [^{99m} Tc]HYNIC-TOC
Hypoxia	FETNIM precursor	1430	Precursor for [¹⁸ F]FETNIM
Hypoxia	FETNIM	1440	Reference standard for [¹⁸ F]FETNIM

Tracer	Product related to the tracer	Product number	Product use
IAP	TAP	3300	Precursor for [¹²³ I]IAP
IAP	IAP	3310	Reference standard for [¹²³ I]IAP
IBZM	S-(-)-BZM	7500	Precursor for S-(-)-[¹²³ / ¹²⁵ I]IBZM
IBZM	S-(-)-IBZM	7510	Reference standard for S-(-)-[¹²³ / ¹²⁵ I]IBZM
IHDA	16-Iodoheptadecanoic acid	7600	Reference standard for 16-[¹²³ I]Iodoheptadecanoic acid
Iodoheptadecanoic acid	16-Iodoheptadecanoic acid	7600	Reference standard for 16-[¹²³ I]Iodoheptadecanoic acid
Iodo-Tyrosine	2-Iodo-tyrosine	3020	Precursor for 2-[¹²³ I]Iodo-L-tyrosine
Iodo-Tyrosine	2-Iodo- α -methyl-p-tyrosine	3180	Reference standard for 2-[¹²³ I]Iodo- α -methyl-p-L-tyrosine
Iodo-Tyrosine	3-Iodo- α -methyl-p-tyrosine	3190	Reference standard for 3-[¹²³ I]Iodo- α -methyl-L-tyrosine
ISOF	ISOM	3590	Precursor for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸ F]fluoro-ethoxy)-5-methyl-benzamide
ISOF	ISOF	3591	Reference standard for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸ F]fluoro-ethoxy)-5-methyl-benzamide
IUDR	IUDR	2949	Reference standard for [¹²³ I]IUDR and [¹²⁵ I]IUDR
IUDR	5-Trimethylstannyl-2'-deoxyuridine	2948	Precursor for [¹²³ I]IUDR
Lanreotide	Lanreotide trifluoroacetate	9820	Potent somatostatin agonist, selective for somatostatin receptor subtype 2
Lanreotide	DOTA-Lanreotide acetate	9831	Precursor for radiolabelled DOTA-Lanreotide
Lanreotide	HYNIC-Lanreotide trifluoroacetate	9836	Precursor for radiolabelled HYNIC-Lanreotide
Lansoprazole	[¹⁸ F]Lansoprazole Precursor	5150	Precursor for [¹⁸ F]Lansoprazole
Mannose	Glucose Triflate	1117	Precursor for [¹⁸ F]FDM
Mannose	MBETG	1118	Precursor for [¹⁸ F]FDM
McN 5652	(+)-McN 5652 Thiobutyrate	4360	Precursor for (+)-[¹¹ C]McN 5652
McN 5652	(+)-McN 5652	4370	Reference standard for (+)-[¹¹ C]McN 5652
McN 5652	(-)-McN 5652	4380	Reference standard for (-)-[¹¹ C]McN 5652
McN5652	(+)-Fluoromethyl-McN 5652	4381	Reference standard for S-([¹⁸ F]Fluoromethyl)-(+)-McN5652
MDL100907	MDL105725	1840	Precursor for [¹¹ C]MDL100907
MDL100907	MDL100907	1850	Reference standard for [¹¹ C]MDL100907
MDL100907	MDL100151	1860	Reference standard for rac-[¹¹ C]MDL100907
MDL100907	MDL100907 tartrate salt	1870	Reference standard for [¹¹ C]MDL100907
Me-4-FDG	Me-4-FDG precursor	1138	Precursor for Me-4-[¹⁸ F]FDG
MeNER	(2S,3S)-N-Boc-norethylreboxetine	4400	Precursor for [¹¹ C]MeNER
MeNER	(2S,3S)-Methylreboxetine	4406	Reference standard for [¹¹ C]MeNER
MeNER	(2S,3S)-Desethylreboxetine	4407	Precursor for [¹¹ C]MeNER
Me-QNB	QNB	2830	Precursor for [¹¹ C]Me-QNB
Me-QNB	Me-QNB	2840	Reference standard for [¹¹ C]Me-QNB
Metahydroxyephedrine	Metaraminol (free base)	3380	Precursor for [¹¹ C]Metahydroxyephedrine
Metahydroxyephedrine	Metaraminol bitartrate	3390	Precursor for [¹¹ C]Metahydroxyephedrine
Metahydroxyephedrine	MHED hydrochloride	3400	Reference standard for [¹¹ C]Metahydroxyephedrine
Metaiodobenzylguanidine	MIBG Hemisulfate	7000	Precursor for [¹²⁵ I]Metaiodobenzylguanidine
Metaiodobenzylguanidine	MIBG Hemisulfate (GMP)	7001	Precursor for [¹²⁵ I]Metaiodobenzylguanidine
Metaiodobenzylguanidine	MTMSBG	7010	Precursor for n.c.a. [¹²⁵ I]Metaiodobenzylguanidine
Metaiodobenzylguanidine	TMSnBG	7012	Precursor for n.c.a. [¹²⁵ I]Metaiodobenzylguanidine
Methionine	L-Homocysteine	2200	Precursor for L-[¹¹ C]Methyl-methionine
Methionine	D,L-Homocysteine	2205	Precursor for D,L-[¹¹ C]methyl-methionine (Analytical standard for validation of L-[¹¹ C]methyl-methionine synthesis)
Methionine	L-Homocysteine thiolactone hydrochloride	2210	Precursor for L-[¹¹ C]Methyl-methionine, -ethionine, and -propionine
Methionine	L-Methionine	2220	Reference standard for L-[¹¹ C]Methyl-methionine
Methionine	D-Methionine	2229	Reference standard for D-[¹¹ C]Methyl-methionine
Methionine	D,L-Methionine	2230	Reference standard for D,L-[¹¹ C]Methyl-methionine
Methyl tosylate	Fluoromethyl tosylate	6194	Reference standard for 1-[¹⁸ F]Fluoromethyl tosylate
Methylphenidate	D-threo-N-NPS-Ritalinic acid	1592	Precursor for D-threo-[¹¹ C]Methylphenidate
Methylphenidate	D-threo-Methylphenidate hydrochloride	1593	Reference standard for D-threo-[¹¹ C]Methylphenidate
Metomidate	(R)-Metomidate hydrochloride	1760	Reference standard for [¹¹ C]Metomidate
Metomidate	(S)-Metomidate hydrochloride	1762	Reference standard for [¹¹ C]Metomidate
Metomidate	(R)-Desethyl-Etomidate	1780	Precursor for [¹¹ C]Metomidate, [¹¹ C]Etomidate, and (R)-[¹⁸ F]FETO

Tracer	Product related to the tracer	Product number	Product use
Metomidate	(S)-Desethyl-Etomidate	1782	Precursor for [¹¹ C]Metomidate and [¹¹ C]Etomidate and (S)-[¹⁸ F]FETO
MFBG hydrochloride	MFBG pinacol boronate precursor	7033	Precursor for meta-[¹⁸ F]Fluorobenzylguanidine
MFBG hydrochloride	MFBG hydrochloride	7034	Precursor for meta-[¹⁸ F]Fluorobenzylguanidine
MK-8278	Desmethyl-MK-8278	3720	Precursor for [¹¹ C]MK-8278
MPPF	Nitro-MPPF	3240	Precursor for [¹⁸ F]MPPF
MPPF	MPPF	3250	Reference standard for [¹⁸ F]MPPF
MPT	Desmethyl-MPT	3260	Precursor for [¹¹ C]MPT
MPT	MPT	3270	Reference standard for [¹¹ C]MPT
n.a.	DCFPyL reference standard	9925	Reference standard for [¹⁸ F]DCFPyL
Naltrindole	3-O-Benzyl-naltrindole	2800	Precursor for N1'([¹¹ C]Methyl)-naltrindole
Naltrindole	N-Methylnaltrindole	2810	Reference standard for N1'([¹¹ C]Methyl)-naltrindole
neurokinin receptor	DOTA-Substance P	9960	Precursor for radiometal-labelled neurokinin receptor targeted peptides
NMB	4-(2-Keto-3-methyl-1-benzimidazolyl)piperidine	2700	Precursor for [¹⁸ F]NMB
NMB	FNMB	2760	Reference standard for [¹⁸ F]NMB
NNC112	(+)-Desmethyl-NNC112	1480	Precursor for [¹¹ C]NNC112
NNC112	(+)-NNC112	1490	Reference standard for [¹¹ C]NNC112
NODAGA-AMBA	NODAGA-AMBA trifluoroacetate	9814	
NODAGA-NOC	NODAGA-NOC acetate	9718	Precursor for radiolabelled peptides
NODAGA-RGD	Ga-NODAGA-RGD	9807	Reference standard for ⁶⁸ Ga-NODAGA-RGD
NODAGA-RGD dimer	NODAGA-RGD dimer acetate	9804	Precursor for radiolabelled NODAGA-RGD dimer
Norbinaltorphimine	Norbinaltorphimine dihydrochloride	4500	
Nosyloxyethane	1,2-Bis(nosyloxy)ethane	6179	Precursor for 1-[¹⁸ F]Fluoro-2-nosyloxy-ethane
NOTA-AMBA	NOTA-AMBA trifluoroacetate	9815	
NOTA-Octreotide	NOTA-Octreotide trifluoroacetate	9762	Precursor for radiolabelled NOTA-Octreotide
NOTA-octreotide	NOTA-NOC acetate	9765	Precursor for radiometal-labelled NOTA-[1-Nal3]octreotide.
NOTA-RGDfK	NOTA-RGDfK acetate	9802	Precursor for radiolabelled NOTA-RGDfK.
NOTA-RGDfK	Ga-NODAGA-RGD dimer	9803	Reference standard for ⁶⁸ Ga-NODAGA-RGD dimer
NPA and NMA	(R)-(-)-Norapomorphine hydrobromide	1477	Precursor for [¹¹ C]-(-)-NPA and [¹¹ C]-(-)-NMA
Octreotate	[Tyr ³]Octreotate acetate	9774	
Octreotide	Octreotide acetate	9750	
Octreotide	TETA-Octreotide acetate	9760	Precursor for radiolabelled TETA-Octreotide
Octreotide	NOTA-Octreotide trifluoroacetate	9762	Precursor for radiolabelled NOTA-Octreotide
Octreotide	NOTA-NOC acetate	9765	Precursor for radiometal-labelled NOTA-[1-Nal3]octreotide.
Octreotide	[Tyr ³ ,Lys ⁵ (Boc)]octreotide acetate	9900	Precursor for N-terminal substituted octreotide analogs
Octreotide	[Lys ⁵ (Boc)]octreotate acetate	9901	Precursor for N-terminal substituted octreotate analogs
Octreotide	[Lys ⁵ (Boc)]lanreotide acetate	9902	Precursor for N-terminal substituted lanreotide analogs
Octreotide	[Nal ³ ,Lys ⁵ (Boc)]octreotide acetate	9903	Precursor for N-terminal substituted [Nal ³]octreotide analogs
OMFD	OMFD precursor ABX004	1363	Precursor for [¹⁸ F]OMFD
OMFD	OMFD	1369	Reference standard for [¹⁸ F]OMFD
opioid receptor	3-O-Trityl-6-O-desmethyl-diprenorphine	2000	Precursor for [¹¹ C]Diprenorphine
opioid receptor	Diprenorphine hydrochloride	2010	Reference standard for [¹¹ C]Diprenorphine
opioid receptor	Diprenorphine	2020	Reference standard for [¹¹ C]Diprenorphine
opioid receptor	6-O-Fluoroethyl-6-O-desmethyl-diprenorphine	2040	Reference standard for [¹⁸ F]Fluoroethyl-diprenorphine
opioid receptor	GR 89696 fumarate	2070	Reference standard for (R)-(-)-[¹¹ C]GR 103545 and (S)-(+)-[¹¹ C]GR 103545
opioid receptor	3-O-Benzyl-naltrindole	2800	Precursor for N1'([¹¹ C]Methyl)-naltrindole
opioid receptor	N-Methylnaltrindole	2810	Reference standard for N1'([¹¹ C]Methyl)-naltrindole
opioid receptor	Norbinaltorphimine dihydrochloride	4500	
Palmitic acid	Pentadecylmagnesium bromide 0.5 M in diethyl ether	831	Reagent for synthesis of [¹¹ C]palmitic acid

Tracer	Product related to the tracer	Product number	Product use
PBR28	PBR28 precursor	1652	Precursor for [^{11}C]-PBR28
PBR28	PBR28 standard	1653	Reference standard for [^{11}C]-PBR28
PD 153035	Desmethyl-PD 153035	5200	Precursor for [Methoxy- ^{11}C]PD 153035
PD 153035	PD 153035	5210	Reference standard for [Methoxy- ^{11}C]PD 153035
PE2I	PE2I acid	4160	Precursor for [^{11}C]PE2I
PE2I	PE2I tin precursor	4165	Precursor for [^{123}I]PE2I
PE2I	PE2I	4170	Reference standard for [^{11}C]PE2I
PE2I	TEO-PE2I	4172	Precursor for [^{18}F]FE-PE2I
PE2I	FE-PE2I	4173	Reference standard for [^{18}F]FE-PE2I
Pentetreotide	Pentetreotide trifluoroacetate	9740	Precursor for radiolabelled Pentetreotide
PEO	3-O-Trityl-6-O-desmethyl-phenethyl-orvinol	2051	Precursor for [^{11}C]Phenethyl-orvinol
PEO	Phenethyl-orvinol	2052	Reference standard for [^{11}C]Phenethyl-orvinol
PEO	6-O-(2-Fluoroethyl)-6-O-desmethyl-phenethyl-orvinol	2053	Reference standard for [^{18}F]FE-PEO
Peptides	Fmoc-Lys(ivDde)-OH	9500	Amino acid building block for peptide synthesis
Peptides	NODAGA-NOC acetate	9718	Precursor for radiolabelled peptides
PHNO	(+)-9-MeO-HNO hydrochloride	1642	Reference standard for [^{11}C]-(+)-PHNO
PHNO	(+)-HNO hydrochloride	1643	Precursor for [^{11}C]-(+)-PHNO
			Precursor for [^{18}F]-(+)-F-PHNO
PHNO	(+)-F-PHNO	1646	Reference standard [^{18}F]-(+)-F-PHNO
PHNO	(+)-HNO hydrochloride (GMP)	1647	Precursor for [^{11}C]-(+)-PHNO
			Precursor for [^{18}F]-(+)-F-PHNO
PHNO	(+)-PHNO hydrochloride	1645	Reference standard for [^{11}C]-(+)-PHNO
PiB	6-OH-BTA-0	5100	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-0	5100	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-0 (GMP)	5101	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-0 (GMP)	5101	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-MOMO-BTA-0	5110	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-MOMO-BTA-0	5110	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-MOMO-BTA-0 (GMP)	5111	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-MOMO-BTA-0 (GMP)	5111	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-1 hydrochloride	5120	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-1 hydrochloride	5120	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-MeO-BTA-0	5130	Reference standard for [O-Methyl- ^{11}C]6-MeO-BTA-0
PiB	6-MeO-BTA-0	5130	Reference standard for [O-Methyl- ^{11}C]6-MeO-BTA-0
PiB	6-OH-BTA-1 (free base)	5140	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
PiB	6-OH-BTA-1 (free base)	5140	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-OH-BTA-0	5100	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-OH-BTA-0 (GMP)	5101	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-MOMO-BTA-0	5110	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-MOMO-BTA-0 (GMP)	5111	Precursor for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-OH-BTA-1 hydrochloride	5120	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
Pittsburgh Comp. B	6-MeO-BTA-0	5130	Reference standard for [O-Methyl- ^{11}C]6-MeO-BTA-0
Pittsburgh Comp. B	6-OH-BTA-1 (free base)	5140	Reference standard for [N-Methyl- ^{11}C]-6-OH-BTA-1
PK11195	(R)-N-Desmethyl PK11195	1600	Precursor for (R)-[N-Methyl- ^{11}C]-PK11195
PK11195	(S)-PK 11195	1609	Reference standard for analytical detection of (S)-[N-Methyl- ^{11}C]PK11195.
PK11195	(R)-PK11195	1610	Reference standard for (R)-[N-Methyl- ^{11}C]PK11195
PK11195	(R,S)-PK11195	1611	Reference standard for (R,S)-[N-Methyl- ^{11}C]PK11195
PK11195	(S)-N-Desmethyl PK11195	1620	Precursor for (S)-[N-Methyl- ^{11}C]-PK11195
PK11195	(R,S)-N-Desmethyl PK11195	1640	Precursor for (R,S)-[N-Methyl- ^{11}C]-PK11195
PMP / AChE	Propionic acid piperidin-4-yl ester hydrochloride	2130	Precursor for [^{11}C]PMP
PMP / AChE	Propionic acid 1-methyl-piperidin-4-yl ester hydrochloride	2140	Reference standard for [^{11}C]PMP
Proline	N-Boc-trans-4-tosyloxy-L-proline methyl ester	2300	Precursor for cis-4-[^{18}F]Fluoro-L-proline
Proline	N-Boc-trans-4-mesyloxy-D-proline tert-butyl ester	2301	Precursor for cis-4-[^{18}F]Fluoro-D-proline

Tracer	Product related to the tracer	Product number	Product use
Proline	N-Boc-cis-4-tosyloxy-L-proline methyl ester	2310	Precursor for trans-4-[¹⁸ F]Fluoro-L-proline
Proline	cis-4-Fluoro-L-proline	2320	Reference standard for cis-[¹⁸ F]Fluoro-L-proline
Proline	cis-4-Fluoro-D-proline hydrochloride	2321	Reference standard for cis-4-[¹⁸ F]Fluoro-D-proline
Proline	trans-4-Fluoro-L-proline	2330	Reference standard for trans-[¹⁸ F]Fluoro-L-proline
Propargyldieth. glycol	Tosyl-propargyl-diethylene glycol	6305	Precursor for [¹⁸ F]Fluoro-propargyl-diethylene glycol
Propargyldieth. glycol	Tosyl-propargyl-triethylene glycol	6307	Precursor for [¹⁸ F]Fluoro-propargyl-triethylene glycol
Propargyldieth. glycol	Fluoro-propargyl-triethylene glycol	6308	Reference standard for [¹⁸ F]Fluoro-propargyl-triethylene glycol
Propionine	L-Homocysteine thiolactone hydrochloride	2210	Precursor for L-[¹¹ C]Methyl-methionine, -ethionine, and -propionine
Propoxybenzene	3-(4-Azidophenoxy)propyl methansulfonate	6320	Precursor for 1-Azido-4-(3-[¹⁸ F]fluoro-propoxy)-benzene
Propranolol	(S)-N-Desisopropylpropranolol	2550	Precursor for [¹¹ C] and [¹⁸ F]Propranolol
Propyltosylate	3-Fluoropropyltosylate	6190	Reference standard for 3-[¹⁸ F]Fluoropropyltosylate
PSMA	PSMA-11 (GMP)	9919	Precursor for [⁶⁸ Ga]GaPSMA-11
PSMA	PSMA-11	9920	Precursor for [⁶⁸ Ga]GaPSMA-11
PSMA	PSMA-11 (GMP)	9921	Precursor for [⁶⁸ Ga]GaPSMA-11
PSMA	GaPSMA-11	9922	Reference standard for [⁶⁸ Ga]GaPSMA-11
PSMA	PSMA-10	9923	Precursor for [⁶⁸ Ga]GaPSMA-10
PSMA	PSMA-617	9933	Precursor for [⁶⁸ Ga/ ¹⁷⁷ Lu/ ⁹⁰ Y]PSMA-617
PSMA	PSMA-617 (GMP)	9934	Precursor for [⁶⁸ Ga/ ¹⁷⁷ Lu/ ⁹⁰ Y]PSMA-617
PSMA	GaPSMA-617	9935	Reference standard for [⁶⁸ Ga]GaPSMA-617
PSMA	LuPSMA-617	9936	Reference Standard for [¹⁷⁷ Lu]LuPSMA-617
PSMA	deprotected DCFPyL precursor	9941	Precursor for [¹⁸ F]DCFPyL
PSMA	PSMA-1007 precursor	9943	Precursor for [¹⁸ F]PSMA-1007
PSMA	PSMA-1007 reference standard	99433	Reference Standard for [¹⁸ F]PSMA-1007
Raclopride	(S)-O-Desmethyleraclopride hydrobromide	1500	Precursor for [¹¹ C]Raclopride
Raclopride	(R)-O-Desmethyleraclopride hydrobromide	1501	Precursor for [¹¹ C]Raclopride
Raclopride	(R,S)-O-Desmethyleraclopride hydrobromide	1502	Precursor for [¹¹ C]Raclopride
Raclopride	(S)-O-Desmethyleraclopride	1510	Precursor for [¹¹ C]Raclopride
Raclopride	Raclopride	1520	Reference standard for [¹¹ C]Raclopride
Re-188-Labeling	MIBI	7200	Ligand for labelling with ^{99m} Tc or ¹⁸⁸ Re
Re-188-Labeling	Copper tetraMIBI tetrafluoroborate [Cu(MIBI) ₄]BF ₄	7210	Ligand for labelling with ^{99m} Tc or ¹⁸⁸ Re
Re-188-Labeling	Copper tetraMIBI tetrafluoroborate (GMP)	7211	Ligand for labelling with ^{99m} Tc or ¹⁸⁸ Re
Reboxetine	(2S,3S)-N-Boc-carboxylreboxetine	4402	Precursor for [¹¹ C]Methylreboxetinecarboxylate
Reboxetine	(2S,3S)-Carboxylreboxetine fluoroethyl ester trifluoroacetate	4403	Reference standard for [¹⁸ F]Fluoroethylreboxetinecarboxylate
Reboxetine	Methylreboxetinecarboxylate	4405	Reference standard for [¹¹ C]Methylreboxetinecarboxylate
reducing agent	Lithium Aluminium Hydride in THF bulk	801	1 M solution in dried tetrahydrofuran with controlled ¹² C-background
reducing agent	Lithium aluminium hydride (0.1 M in THF)	802	0.1 M solution in dried tetrahydrofuran with controlled ¹² C-background
reducing agent	Lithium aluminium hydride (0.25 M in THF)	803	0.25 M solution in dried tetrahydrofuran with controlled ¹² C-background
reducing agent	Lithium aluminium hydride (0.05 M in THF)	804	0.05 M solution in dried tetrahydrofuran with controlled ¹² C-background
reducing agent	Lithium aluminium hydride (0.1 M in THF)	832	0.1 M solution in dried tetrahydrofuran with controlled ¹² C-background
RGD peptides	NODAGA-RGD trifluoroacetate	9805	Precursor for radiolabelled RGD peptides
RGD peptides	NODAGA-RGD (GMP)	9806	Precursor for radiometal-labelled RGD-peptide.
RGD peptides	Ga-NODAGA-RGD	9807	Reference standard for ⁶⁸ Ga-NODAGA-RGD
RGD peptides	DOTA-RGDfK dimer acetate	9862	Precursor for radiometal-labelled RGD-peptide.
RGD peptides	DTPA-Bn-cyclo(RGDfK) dimer trifluoroacetate	9866	Precursor for α _v β ₃ integrin targeted, radiometal-labelled RGD-peptides
RGD peptides	HYNIC-cyclo(RGDfK) dimer trifluoroacetate	9867	Precursor for α _v β ₃ integrin targeted, ^{99m} Tc-labelled RGD-peptides
RGDfK	NOTA-RGDfK acetate	9802	Precursor for radiolabelled NOTA-RGDfK.
RGDfK	Ga-NODAGA-RGD dimer	9803	Reference standard for ⁶⁸ Ga-NODAGA-RGD dimer

Tracer	Product related to the tracer	Product number	Product use
RGDfK	Cyclo-RGDfK	9860	Integrin targeting sequence.
RGDfK	Cyclo-RGDfK dimer trifluoroacetate	9861	Integrin targeting sequence.
Rifampicin	N-Demethylrifampicin	5700	Precursor for [¹¹ C]Rifampicin
Ro15-4513	Azidomazenil	1680	Reference standard for [¹¹ C]Ro15-4513
Ro15-4513	Desmethylazidomazenil	1681	Precursor for [¹¹ C]Ro15-4513
Rolipram	Rolipram	6000	Reference standard for [¹¹ C]Rolipram
Rolipram	(S)-(+)-Rolipram	6010	Reference standard for [¹¹ C]-(S)-Rolipram
Rolipram	(R)-(-)-Rolipram	6020	Reference standard for [¹¹ C]-(R)-Rolipram
Rolipram	Desmethyl-Rolipram	6030	Precursor for [¹¹ C]Rolipram
Rolipram	(S)-(+)-Desmethyl-Rolipram	6040	Precursor for S-(+)-[¹¹ C]Rolipram
Rolipram	(R)-(-)-Desmethyl-Rolipram	6050	Precursor for R-(-)-[¹¹ C]Rolipram
SB207145	SB206453	1880	Precursor for [¹¹ C]SB207145
SB207145	SB206453 (GMP)	1881	Precursor for [¹¹ C]SB207145
SB207145	SB207145	1882	Reference standard for [¹¹ C]SB207145
SCH-23388	(S)-SCH-24518 hydrochloride	1462	Precursor for [¹¹ C]SCH-23388
SCH-23388	SCH-23388 hydrochloride	1466	Reference standard for [¹¹ C]SCH-23388
SCH-23390	(R)-SCH-24518 hydrochloride	1460	Precursor for [¹¹ C]SCH-23390
SCH-23390	SCH-23390 hydrochloride	1464	Reference standard for [¹¹ C]SCH-23390
SCH-442416	Desmethyl-SCH-442416	3700	Precursor for [¹¹ C]SCH 442416
SCH-442416	SCH-442416	3710	Reference standard for [¹¹ C]SCH 442416
Setoperone	Nitro-Setoperone	1820	Precursor for [¹⁸ F]Fluoro-Setoperone
Setoperone	Setoperone	1830	Reference standard for [¹⁸ F]Fluoro-Setoperone
SFB	SFB	4392	Reference standard for [¹⁸ F]SFB
SGMIB	SGMIB Standard	7014	Standard for [¹³¹ I]SGMIB
SGMIB	SGMIB Precursor	7015	Precursor for [¹³¹ I]SGMIB
sigma receptor	ISOM	3590	Precursor for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸ F]fluoro-ethoxy)-5-methyl-benzamide
sigma receptor	ISOF	3591	Reference standard for (N-[4-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-butyl]-2-(2-[¹⁸ F]fluoro-ethoxy)-5-methyl-benzamide
somatostatin	Octreotide acetate	9750	
Somatostatin	[Na ³]Octreotide acetate	9752	Potent somatostatin analog
somatostatin	[Na ³]Octreotide acetate	9752	Potent somatostatin analog
Somatostatin	[Tyr ³]Octreotide acetate	9810	Potent somatostatin analog
Somatostatin	Lanreotide trifluoroacetate	9820	Potent somatostatin agonist, selective for somatostatin receptor subtype 2
somatostatin receptor	DOTATOC (GMP)	9702	Precursor for radiolabelled DOTA-TOC
somatostatin receptor	DOTA-NOC acetate	9712	Precursor for radiolabelled DOTA-NOC
somatostatin receptor	DOTA-NOC acetate (GMP)	9716	Precursor for radiolabelled DOTA-NOC
somatostatin receptor	Pentreotide trifluoroacetate	9740	Precursor for radiolabelled Pentreotide
somatostatin receptor	DTPA-TOC trifluoroacetate	9744	Precursor for radiolabelled DTPA-TOC
somatostatin receptor	TETA-Octreotide acetate	9760	Precursor for radiolabelled TETA-Octreotide
somatostatin receptor	Lanreotide trifluoroacetate	9820	Potent somatostatin agonist, selective for somatostatin receptor subtype 2
somatostatin receptor	DOTA-Lanreotide acetate	9831	Precursor for radiolabelled DOTA-Lanreotide
somatostatin receptor	5(6)-FAM-TATE	9908	fluorescent dye-labelled somatostatin receptor agonist.
Spiperone	N-Mesitylenesulfonyloxy-ethyl-spiperone	1590	Precursor for 3-(2'-[¹⁸ F]Fluorethyl)spiperone
Spiperone	Fluoroethylspiperone	1591	Reference standard for 3-(2'-[¹⁸ F]Fluorethyl)spiperone
Talose	Talose Triflate	1140	Precursor for [¹⁸ F]FDGal
TBZ	(+)-beta-Dihydrotrabenazine	4731	
TBZ	(+)-Tetrabenazine	4732	Reference standard for [¹¹ C]Tetrabenazine
TBZ	(+)-9-O-Desmethyl-tetrabenazine	4733	Precursor for [¹¹ C]Tetrabenazine
Tc-99m-Labeling	Mebrofenin	7050	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	Disofenin	7060	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	Succinimidyl-N-Boc-Hynic	7080	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	Succinimidyl-Hynic hydrochloride	7090	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	S-Benzoyl-MAG-3	7100	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	MAG 3	7110	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	BMEDA	7150	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	MDP	7160	Ligand for labelling with ^{99m} Tc
Tc-99m-Labeling	HMDP	7161	Ligand for labelling with ^{99m} Tc

Tracer	Product related to the tracer	Product number	Product use
Tc-99m-Labeling	MIBI	7200	Ligand for labelling with ^{99m}Tc or ^{188}Re
Tc-99m-Labeling	Copper tetraMIBI tetrafluoroborate $[\text{Cu}(\text{MIBI})_4]\text{BF}_4$	7210	Ligand for labelling with ^{99m}Tc or ^{188}Re
Tc-99m-Labeling	Copper tetraMIBI tetrafluoroborate (GMP)	7211	Ligand for labelling with ^{99m}Tc or ^{188}Re
Tc-99m-Labeling	Zinc-TBI	7220	Ligand for labelling with ^{99m}Tc
Tc-99m-Labeling	EC	7250	Ligand for labelling with ^{99m}Tc
Tc-99m-Labeling	ECD	7260	Ligand for labelling with ^{99m}Tc
Tc-99m-Labeling	Tetrofosmin	7310	Complexation agent for ^{99m}Tc -Labeling
Tc-99m-Labeling	TRODAT	7400	Ligand for labelling with ^{99m}Tc
Technetium	TRODAT	7400	Ligand for labelling with ^{99m}Tc
TETA-Octreotide	TETA-Octreotide acetate	9760	Precursor for radiolabelled TETA-Octreotide
Tetrabenazine	(+)-9-O-Desmethyl- α -dihydrotetrabenazine	4700	Precursor for ^{11}C DTBZ
Tetrabenazine	(+)-9-O-Desmethyl- α -dihydrotetrabenazine	4710	Precursor for (+)- ^{11}C DTBZ
Tetrabenazine	(-)-9-O-Desmethyl- α -dihydrotetrabenazine	4720	Precursor for (-)- ^{11}C DTBZ
Tetrabenazine	(+)- α -Dihydrotetrabenazine	4730	Reference standard for ^{11}C Dihydrotetrabenazine
Tetrabenazine	(+)-beta-Dihydrotetrabenazine	4731	
Tetrabenazine	(+)-Tetrabenazine	4732	Reference standard for ^{11}C Tetrabenazine
Tetrabenazine	(+)-9-O-Desmethyl-tetrabenazine	4733	Precursor for ^{11}C Tetrabenazine
Tetrofosmin	Disodium sulfosalicylate	7312	Reagent for the preparation of ^{99m}Tc Tetrofosmin
Thiadiazine	Aminothiadiazine	4900	Precursor for ^{18}F Thiadiazine
Thiadiazine	Chlorothiadiazine	4910	Precursor for ^{18}F Thiadiazine
Thymidine	DMTr-lyxothymidine	1180	Precursor for ^{18}F FLT
Thymidine	DMTr-Nosyl-lyxothymidine	1190	Precursor for ^{18}F FLT
Thymidine	Dimethoxybenzyl-FLT precursor	1200	Precursor for ^{18}F FLT
Thymidine	Anhydrothymidine-FLT precursor	1210	Precursor for ^{18}F FLT
Thymidine	FLT Ultra Pure	1219	Reference standard for ^{18}F FLT
Thymidine	3'-Fluoro-thymidine (FLT)	1220	Reference standard for ^{18}F FLT
Thymidine	5'-O-Benzoyl-2,3'-anhydrothymidine	1230	Precursor for ^{18}F FLT
Thymidine	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)	1231	Precursor for ^{18}F FLT
Thymidine	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	1240	Precursor for ^{18}F FLT
Thymidine	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)	1241	Precursor for ^{18}F FLT
Thymidine	DEMM	1280	Precursor for 2- ^{11}C Thymidine
Thymidine	Thymidine	1290	Reference standard for 2- ^{11}C Thymidine
Thyroid hormone	Thyronamine Hydrochloride	3035	Metabolite of thyroid hormone
Thyroid hormone	3-Iodothyronamine Hydrochloride	3036	Metabolite of thyroid hormone
Thyronamine	Thyronamine Hydrochloride	3035	Metabolite of thyroid hormone
Thyronamine	3-Iodothyronamine Hydrochloride	3036	Metabolite of thyroid hormone
TNB	TNB-Androstanone	1919	Precursor ^{18}F 17 β -Hydroxy-7 α -fluoro-5 α -androstan-3-one
TOCA	Gluc-[Lys ⁰ ,Lys(ivDde) ⁵]-TOCA	9771	Precursor for Gluc-Lys(^{18}F FP)-TOCA
TOCA	Gluc-Lys(FP)-TOCA	9778	Reference standard for Gluc-Lys(^{18}F FP)-TOCA
Tosyloxybutane	Bis(tosyl)-1,4-butanediol	6185	Precursor for 1- ^{18}F Fluoro-4-tosyloxy-butane
Tosyloxybutyne	1,4-Bis(tosyloxy)but-2-yne	6186	Precursor for 1- ^{18}F Fluoro-4-tosyloxy-but-2-yne
Tosyloxypropane	1,3-Propane-di-tosylate	6191	Precursor for 1- ^{18}F Fluoro-3-tosyloxy-propane
Tryptophan	Dimethyl-8-acetyl-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate	6500	Precursor for α - ^{11}C Methyl-L-tryptophan
Tryptophan	α -Methyl-L-tryptophan	6510	Reference standard for α - ^{11}C Methyl-L-tryptophan
Tryptophan	Dimethyl-8-phenylsulfonyl-5-phenylsulfonyloxy-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate	6520	Precursor for 5-OH- α - ^{11}C Methyl-L-tryptophan

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Tracer	Product related to the tracer	Product number	Product use
Ubiquicidin	Ubiquicidin (29-41) acetate	9600	Precursor for [^{99m} Tc]Ubiquicidin (29-41)
Ubiquicidin	DOTA-Ubiquicidin (29-41) acetate	9601	Precursor for Infection Imaging Agents
Ubiquicidin	Scrambled Ubiquicidin (29-41)	9602	Precursor for Infection Imaging Agents
Ubiquicidin	NOTA-Ubiquicidin (29-41) acetate	9603	
Uracil	FTRU	2880	Precursor for 5-[¹³¹ I]Iodo- and 5-[²¹¹ At]Astato 1-(2-deoxy-2-fluoro-β-D-ribofuranosyl)uracil
Uracil	5-Fluorouracil precursor	2958	Precursor for [¹⁸ F]-5-FU
Uridine	2'-Deoxy-L-uridine	2950	
Verapamil	Norverapamil	5600	Precursor for [¹¹ C]Verapamil
Verapamil	(-)-Norverapamil	5620	Precursor for (-)-[¹¹ C]Verapamil
Verapamil	(+)-Verapamil hydrochloride	5630	Reference standard for (+)-[¹¹ C]Verapamil
WAY 100635	WAY 100634	3200	Precursor for [¹¹ C-carbonyl]-WAY 100635
WAY 100635	WAY 100635	3210	Reference standard for [¹¹ C-carbonyl]-WAY 100635
WAY 100635	Desmethyl-WAY100635	3220	Precursor for [¹¹ C]-WAY 100635
WAY 100635	Desmethyl-WAY 100634	3230	Precursor for [¹¹ C-carbonyl]-DesmethylWAY100635
Xeloda	Nitro-Xeloda	2952	Precursor for [¹⁸ F]Xeloda
Xeloda	Xeloda	2953	Reference standard for [¹⁸ F]Xeloda
Zr-89 Labelling	TFP-N-sucDf-Fe	7270	Precursor for mAb-N-sucDf- ⁸⁹ Zr

Molecular Formula Index

Molecular Formula	Name	Product Number
$C_2H_2F_KO_2$	Potassium fluoroacetate	6210
$C_2H_2FNaO_2$	Sodium fluoroacetate	6211
$C_2H_4Br_2$	Dibromoethane	6175
$C_3H_4BrF_3O_3S$	2-Bromoethyl triflate	6182
$C_4H_7NOS \cdot HCl$	L-Homocysteine thiolactone hydrochloride	2210
$C_4H_9NO_2S$	L-Homocysteine	2200
$C_4H_9NO_2S$	D,L-Homocysteine	2205
$C_4H_{11}NO$	Dimethylaminoethanol	6100
$C_5H_8FNO_2$	cis-4-Fluoro-L-proline	2320
$C_5H_8FNO_2$	trans-4-Fluoro-L-proline	2330
$C_5H_9ClFNO_2$	cis-4-Fluoro-D-proline hydrochloride	2321
$C_5H_{11}NO_2S$	L-Methionine	2220
$C_5H_{11}NO_2S$	D-Methionine	2229
$C_5H_{11}NO_2S$	D,L-Methionine	2230
$C_5H_{13}ClFNO$	Fluoromethylcholine chloride	6130
$C_5H_{14}ClNO$	Choline chloride	6150
$C_5H_{14}INO$	Choline iodide	6170
$C_5H_{13}Br_2NO$	Bromocholine bromide	6141
$C_5H_{13}BrFNO$	Fluoromethylcholine bromide	6140
$C_6H_8N_3O_3F$	Fluoromisonidazole	1410
$C_6H_9N_3O_4$	Desmethylmisonidazole	1420
$C_6H_{11}ClO_5$	CIDG	1110
$C_6H_{11}FO_5$	FDG	1100
$C_6H_{11}FO_5$	6-Deoxy-6-fluoro-D-glucopyranose	1108
$C_6H_{11}FO_5$	FDM	1120
$C_6H_{11}FO_5$	FDGal	1150
$C_6H_{11}NO$	MIBI	7200
$C_6H_{11}O_7P$	PMPA	9510
$C_6H_{15}ClFNO$	Fluoroethylcholine chloride	6160
$C_6H_{15}FNO \cdot C_7H_7O_3S$	Fluoroethylcholine tosylate	6120
$C_6H_{18}Cl_3N_3$	TACN	7281
$C_6H_{20}N_2O_{12}P_4 \cdot xH_2O$	EDTMP	7165
$C_6H_{14}BrNO$	DMMB	6173
$C_7H_4Na_2O_6S \cdot 3 H_2O$	Disodium sulfosalicylate	7312
$C_7H_9FN_4O_3$	N-(2-Fluoroethyl)-2-(2-nitroimidazol-1-yl)acetamide	1454
$C_7H_{10}Cl_2N_2O_2S_2$	Chlorothiadiazine	4910
$C_7H_{10}FN_3O_4$	FETNIM	1440
$C_7H_{12}ClN_3O_2S_2$	Aminothiadiazine	4900
$C_7H_{13}NO_2 \cdot HCl$	Acetic acid piperidin-4-yl ester hydrochloride	2110
$C_7H_{14}N_6S_2$	PTSM	1456
$C_8H_9F_3N_2O_4$	FBEM precursor	4398
$C_8H_9FO_3S$	Fluoromethyl tosylate	6194
$C_8H_{10}FN_3O_5$	1-(5-Deoxy-5-fluoro- α -D-arabinofuranosyl)-2-nitroimidazole	1451
$C_8H_{10}FNO_2$	6-Fluorodopamine	1380
$C_8H_{10}IN_3 \cdot 1/2 H_2SO_4$	MIBG Hemisulfate	7000

$C_8H_{10}IN_3 \cdot \frac{1}{2} H_2SO_4$	MIBG Hemisulfate (GMP)	7001
$C_8H_{11}ClFN_3$	MFBG hydrochloride	7034
$C_8H_{13}N_3O_5S$	MAG 3	7110
$C_8H_{14}CuN_6S_2$	CuATSM	1457
$C_8H_{14}N_6NiS_2$	NiATSM	1459
$C_8H_{15}NO_2 \cdot HCl$	Acetic acid 1-methyl-piperidin-4-yl ester hydrochloride	2120
$C_8H_{15}NO_2 \cdot HCl$	Propionic acid piperidin-4-yl ester hydrochloride	2130
$C_8H_{16}N_2O_4S_2$	EC	7250
$C_8H_{16}N_6S_2$	ATSM	1455
$C_8H_{20}N_4$	Cyclen	7290
$C_8H_8BrNO_5S$	2-Bromoethyl nosylate	6181
$C_9H_8O_3S$	(Benzoylmercapto)acetic acid	7111
$C_9H_{10}FIN_2O_5$	FIAU	2910
$C_9H_{10}FIN_2O_5$	FIRU	2922
$C_9H_{10}FNO_3$	2-Fluoro-tyrosine	3010
$C_9H_{10}FNO_3$	2-Fluoro-m-Tyrosine	3130
$C_9H_{10}FNO_4 \cdot HCl$	6-Fluoro-L-DOPA hydrochloride	1310
$C_9H_{10}FNO_4 \cdot HCl$	6-Fluoro-D,L-DOPA hydrochloride	1311
$C_9H_{10}INO_3$	2-Iodo-tyrosine	3020
$C_9H_{11}FN_2O \cdot C_4H_6O_6$	FAP tartrate	3340
$C_9H_{11}FN_2O_4$	3'-Fluoro-2',3'-dideoxyuridine	2940
$C_9H_{11}FN_2O_5$	FAU	2900
$C_9H_{11}FN_2O_5$	FUdR	2920
$C_9H_{11}FO_3S$	2-Fluoroethyl tosylate	6184
$C_9H_{11}IN_2O \cdot \frac{5}{2} C_2HF_3O_2$	IAP	3310
$C_9H_{11}IN_2O_5$	IUdR	2949
$C_9H_{11}NO_5$	6-Hydroxy-D,L-DOPA	1332
$C_9H_{12}FN_3O_4$	FAC	2930
$C_9H_{12}FN_3O_4$	α FAC	2931
$C_9H_{12}N_2O_5$	2'-Deoxy-L-uridine	2950
$C_9H_{12}N_2O_{10}S$	6-Nitro-L-DOPA hydrogensulfate	1337
$C_9H_{13}NO_2$	Metaraminol (free base)	3380
$C_9H_{13}NO_2 \cdot C_4H_6O_6$	Metaraminol bitartrate	3390
$C_9H_{15}FO_3$	Fluoro-propargyl-triethylene glycol	6308
$C_9H_{16}O_5$	DEMM	1280
$C_9H_{17}NO_2 \cdot HCl$	Propionic acid 1-methyl-piperidin-4-yl ester hydrochloride	2140
$C_9H_{17}NO_2 \cdot HCl$	Butyric acid piperidin-4-yl ester hydrochloride	2150
$C_9H_{11}BrO_3S<$	2-Bromoethyl tosylate	6183
$C_{10}H_1FN_2O_4$	FLT Ultra Pure	1219
$C_{10}H_9NO_3$	Cyclopropyl-p-nitrophenyl ketone	2750
$C_{10}H_{10}FNO$	FPyKYNE	4397
$C_{10}H_{10}N_4O_4 \cdot HCl$	Succinimidyl-Hynic hydrochloride	7090
$C_{10}H_{11}ClFNO_4$	6-Fluoro-Formyl-DOPA HCl	1339
$C_{10}H_{11}ClN_2O_6$	6-Nitro-Formyl-DOPA HCl	1338
$C_{10}H_{12}FNO_4$	OMFD	1369

$C_{10}H_{12}INO_3$	2-Iodo- α -methyl-p-tyrosine	3180
$C_{10}H_{12}INO_3$	3-Iodo- α -methyl-p-tyrosine	3190
$C_{10}H_{12}N_2O_4$	2',3'-Didehydro-3'-deoxythymidine	2954
$C_{10}H_{12}N_2O_5$	2,2'-Anhydrothymidine	1250
$C_{10}H_{13}FN_2O_4$	3'-Fluoro-thymidine (FLT)	1220
$C_{10}H_{13}FN_2O_5$	2'-Fluoro-thymidine	1260
$C_{10}H_{13}FN_2O_5$	FMAU	2878
$C_{10}H_{13}FN_2O_5$	α FMAU	2879
$C_{10}H_{13}FO_3S$	3-Fluoropropyltosylate	6190
$C_{10}H_{13}IN_2O_4$	3'-Iodo-thymidine	1222
$C_{10}H_{13}N_2 \cdot CF_3O_3S$	CPTMA	4385
$C_{10}H_{13}N_3O_4S$	3-(4-Azidophenoxy)propyl methansulfonate	6320
$C_{10}H_{14}FN_5O_2$	FHBG	2970
$C_{10}H_{14}N_2O_5$	Thymidine	1290
$C_{10}H_{14}NO \cdot CF_3O_3S$	4-Formyl-N,N,N-Trimethylanilinium triflate	9850
$C_{10}H_{15}NO_2 \cdot HCl$	MHED hydrochloride	3400
$C_{10}H_{17}ClN_2O_3$	FBAM precursor	4383
$C_{10}H_{19}NO_2 \cdot HCl$	Butyric acid 1-methyl-piperidin-4-yl ester hydrochloride	2160
$C_{10}H_{21}N_3OSi$	Bis(trimethylsilyl)cytosine	2873
$C_{10}H_{24}N_2S_2$	BMEDA	7150
$C_{10}H_{26}Cl_2N_2O_2$	BHTMEDA	6174
$C_{10}H_{18}Br_2N_{22}N$	Zinc-TBI	7220
$C_{11}H_5F_4N_3O_4$	2,3,5,6-Tetrafluorophenyl-2-(2-nitroimidazol-1-yl)acetate	1453
$C_{11}H_8FNO_4$	SFB	4392
$C_{11}H_{12}O_3S$	1-Tosyloxy-3-butyne	6301
$C_{11}H_{13}F_3N_2O_3S$	CMTMA	4386
$C_{11}H_{14}FNO_3 \cdot HCl$	FET hydrochloride	3061
$C_{11}H_{14}FNO_3 \cdot HCl$	D-FET hydrochloride	3071
$C_{11}H_{14}O_4S$	(S)-O-Tosyl-1,2-Epoxybutanol	6351
$C_{11}H_{14}O_5S$	Ethyl (p-tosyloxy)acetate	6200
$C_{11}H_{15}FN_2O_5$	L-FEAU	2874
$C_{11}H_{15}FN_2O_5$	α -L-FEAU	2875
$C_{11}H_{15}FN_2O_5$	FEAU	2876
$C_{11}H_{15}FN_2O_5$	α FEAU	2877
$C_{11}H_{15}NO_4 \cdot HCl$	(L)-HET hydrochloride	3081
$C_{11}H_{19}N_3Si \cdot \frac{1}{2} H_2SO_4$	MTMSBG	7010
$C_{11}H_{22}N_2O_2Si$	5-Methyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine	2872
$C_{12}H_{10}N_2O$	Harmol	1753
$C_{12}H_{11}FN_2O_3$	FPyME standard	4394
$C_{12}H_{12}N_2O_2$	(R)-Desethyl-Etomidate	1780
$C_{12}H_{12}N_2O_2$	(S)-Desethyl-Etomidate	1782
$C_{12}H_{14}N_2O_2$	α -Methyl-L-tryptophan	6510
$C_{12}H_{14}O_3S$	1-Tosyloxy-4-pentyne	6302
$C_{12}H_{15}FN_2$	(-)-Flubatine standard	3351
$C_{12}H_{15}FN_2$	(+)-Flubatine standard	3355
$C_{12}H_{15}NO_2 \cdot HCl$	(+)-HNO hydrochloride	1643

$C_{12}H_{15}NO_2 \cdot HCl$	(+)-HNO hydrochloride (GMP)	1647
$C_{12}H_{18}NO_2 \cdot CF_3O_3S$	FB precursor	4391
$C_{12}H_{19}FN_2O_5Sn$	FTRU	2880
$C_{12}H_{19}FN_2O_5Sn$	FTAU	2890
$C_{12}H_{20}N_2O_5Sn$	5-Trimethylstannyl-2'-deoxyuridine	2948
$C_{12}H_{24}N_2O_2Si$	5-Ethyl-2,4-bis[(trimethylsilyl)oxy]pyrimidine	2871
$C_{12}H_{24}N_2O_4S_2 \cdot 2 HCl$	ECD	7260
$C_{12}H_{33}GaNa_4O_{18}$	Gallium Citrate (complex)	7520
$C_{13}H_1N_2OS$	6-OH-BTA-0 (GMP)	5101
$C_{13}H_{10}FN_3O_3$	Flumazenil acid	1720
$C_{13}H_{10}N_2OS$	6-OH-BTA-0	5100
$C_{13}H_{11}FN_2O_3$	FBEM standard	4399
$C_{13}H_{12}N_2O$	Harmine	1755
$C_{13}H_{13}IN_4O_4$ (Free base)	SGMIB Standard	7014
$C_{13}H_{14}N_2O_2 \cdot HCl$	(R)-Metomidate hydrochloride	1760
$C_{13}H_{14}N_2O_2 \cdot HCl$	(S)-Metomidate hydrochloride	1762
$C_{13}H_{15}NO_2$	(S)-N-Desisopropylpropranolol	2550
$C_{13}H_{16}ClFN_2O_3$	5-FEHP hydrochloride	6532
$C_{13}H_{16}O_3S$	1-Tosyloxy-5-hexyne	6303
$C_{13}H_{17}N_3O$	4-(2-Keto-3-methyl-1-benzimidazolyl)piperidine	2700
$C_{13}H_{17}NO_2 \cdot HCl$	(+)-9-MeO-HNO hydrochloride	1642
$C_{13}H_{19}N_2O \cdot CF_3O_3S$	[^{18}F]FPyKYNE precursor	4396
$C_{13}H_{21}N_3O_4$	(S)-1-(2-Amino-3-nitrophenoxy)-3-tert-butylamino-propan-2-ol	2590
$C_{13}H_{24}INO_4$	(S)-tert-Butyl 2-((tert-butoxycarbonyl) amino)-4-Iodobutanoat	3191
$C_{14}H_7FN_2$	FPEB standard	3572
$C_{14}H_7N_3O_2$	FPEB precursor	3571
$C_{14}H_{12}FN_3O_3$	Desmethylflumazenil	1700
$C_{14}H_{12}N_2O_{10}S_2$	1,2-Bis(nosyloxy)ethane	6179
$C_{14}H_{12}N_2OS$	6-MeO-BTA-0	5130
$C_{14}H_{12}N_2OS$	6-OH-BTA-1 (free base)	5140
$C_{14}H_{12}N_2OS \cdot HCl$	6-OH-BTA-1 hydrochloride	5120
$C_{14}H_{12}N_6O_3$	Desmethylazidomazenil	1681
$C_{14}H_{14}N_2O$	Desmethyl ABP688	3560
$C_{14}H_{14}N_2O$	Desmethyl ABP688 (GMP)	3561
$C_{14}H_{15}ClINO_2$	3-Iodothyronamine Hydrochloride	3036
$C_{14}H_{15}FN_2O_2$	(R)-Fluoroethyl-Etomidate	1790
$C_{14}H_{16}ClNO_2$	Thyronamine Hydrochloride	3035
$C_{14}H_{16}N_2O_2$	(R)-Etomidate	1770
$C_{14}H_{18}Cl_2N_2O_3$	(S)-O-Desmethylnaloxopride	1510
$C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$	(S)-O-Desmethylnaloxopride hydrobromide	1500
$C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$	(R)-O-Desmethylnaloxopride hydrobromide	1501
$C_{14}H_{18}Cl_2N_2O_3 \cdot HBr$	(R,S)-O-Desmethylnaloxopride hydrobromide	1502
$C_{14}H_{18}O_5S$	Tosyl-propargyl-diethylene glycol	6305
$C_{14}H_{19}F_3O_{11}S$	Me-4-FDG precursor	1138
$C_{14}H_{19}FO_9$	ACY-FDG	1130
$C_{14}H_{19}N_3O_5$	Nitro-AP	3320

$C_{14}H_{19}NO_2 \cdot HCl$	D-threo-Methylphenidate hydrochloride	1593
$C_{14}H_{19}NO_5$	4-O-Pivaloyl-L-DOPA	1330
$C_{14}H_{20}ClNO_5$	4-O-Pivaloyl-L-DOPA Hydrochloride	1329
$C_{14}H_{20}O_{10}$	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose	1131
$C_{15}H_{11}N_2OS$	6-MOMO-BTA-0 (GMP)	5111
$C_{15}H_{13}F_2N_3O_3$	Fluoroethylflumazenil	1730
$C_{15}H_{14}FN_3O_3$	Flumazenil	1710
$C_{15}H_{14}N_2O_2S$	6-MOMO-BTA-0	5110
$C_{15}H_{14}N_4O_5$	Nitromazenil	1690
$C_{15}H_{14}N_6O_3$	Azidomazenil	1680
$C_{15}H_{15}N_3S$	MASB	4300
$C_{15}H_{15}N_3S$	MASB (GMP)	4301
$C_{15}H_{16}ClN_3S_2$	Desmethyl-CNS 5161	3540
$C_{15}H_{16}N_2O$	ABP688	3570
$C_{15}H_{16}N_2O_2$	(R)-Desisopropylcarazolol	2500
$C_{15}H_{16}N_2O_2$	(S)-Desisopropylcarazolol	2510
$C_{15}H_{16}N_2O_2$	(R,S)-Desisopropylcarazolol	2511
$C_{15}H_{16}O_6S_2$	Bis(tosyloxy)methane	6177
$C_{15}H_{17}FN_2S \cdot x HCl$	AFM precursor	4320
$C_{15}H_{17}N_3O_6S$	S-Benzoyl-MAG-3	7100
$C_{15}H_{18}ClNO_2$	Nor-beta-CCIT	4180
$C_{15}H_{18}FNO_2$	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane	4020
$C_{15}H_{18}INO_2$	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)nortropane	4050
$C_{15}H_{18}INO_2$	beta-CIT acid	4140
$C_{15}H_{18}N_4O_6$	Succinimidyl-N-Boc-Hynic	7080
$C_{15}H_{19}ClN_2O_4$	SB206453	1880
$C_{15}H_{19}ClN_2O_4$	SB206453 (GMP)	1881
$C_{15}H_{19}F_3O_{12}S$	Mannose Triflate, ultra pure	100
$C_{15}H_{19}F_3O_{12}S$	Mannose Triflate, ultra pure	101
$C_{15}H_{19}F_3O_{12}S$	Mannose Triflate, ultra pure	102
$C_{15}H_{19}F_3O_{12}S$	Mannose Triflate PLUS, ultra pure	105
$C_{15}H_{19}F_3O_{12}S$	Mannose Triflate PLUS, ultra pure	107
$C_{15}H_{19}F_3O_{12}S$	Glucose Triflate	1117
$C_{15}H_{19}F_3O_{12}S$	Talose Triflate	1140
$C_{15}H_{19}NO_3$	Desmethyl-Rolipram	6030
$C_{15}H_{19}NO_3$	(S)-(+)-Desmethyl-Rolipram	6040
$C_{15}H_{19}NO_3$	(R)-(-)-Desmethyl-Rolipram	6050
$C_{15}H_{20}Cl_2N_2O_3$	Raclopride	1520
$C_{15}H_{20}FNO_2$	(+)-F-PHNO	1646
$C_{15}H_{21}IN_2O_3$	S-(-)-IBZM	7510
$C_{15}H_{21}NO_2 \cdot HCl$	(+)-PHNO hydrochloride	1645
$C_{15}H_{22}F_3NO_3Sn$	N-Trifluoroacetyl-3,4-dimethoxy-6-trimethylstannyl-phenethylamine	1370
$C_{15}H_{22}F_3NO_5S$	TBAB	4389
$C_{15}H_{22}FN_3O_6$	Xeloda	2953
$C_{15}H_{22}N_2O_3$	S-(-)-BZM	7500
$C_{15}H_{27}NO_7S$	N-Boc-trans-4-mesyloxy-D-proline tert-butyl ester	2301

$C_{15}H_{31}BrMg$	Pentadecylmagnesium bromide 0.5 M in diethyl ether	831
$C_{15}H_{12}BrN_3O_2$	Desmethyl-PD 153035	5200
$C_{15}H_{19}BrN_2O_5$	Mebrofenin	7050
$C_{15}H_{21}BrN_2O_3$	FLB 604	1530
$C_{16}H_{13}F_2N_3O_2S$	[^{18}F]Lansoprazole Precursor	5150
$C_{16}H_{15}NO_2 \cdot HBr$	(R)-(-)-Norapomorphine hydrobromide	1477
$C_{16}H_{16}ClNO \cdot HCl$	(R)-SCH-24518 hydrochloride	1460
$C_{16}H_{16}ClNO \cdot HCl$	(S)-SCH-24518 hydrochloride	1462
$C_{16}H_{17}N_3S$	DASB	4310
$C_{16}H_{17}N_3S$	DASB (GMP)	4311
$C_{16}H_{18}ClN_3S_2$	CNS 5161	3550
$C_{16}H_{18}N_2O_5$	Dimethyl-8-acetyl-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate	6500
$C_{16}H_{18}O_6S_2$	1,2-Bis(tosyloxy)ethane	6180
$C_{16}H_{19}FINO_2$	CITFES	4100
$C_{16}H_{19}FN_2S \cdot x HCl$	AFM standard	4330
$C_{16}H_{20}FNO_2$	(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)tropane	4000
$C_{16}H_{20}INO_2$	(-)-2-beta-Carbomethoxy-3-beta-(4-iodophenyl)tropane	4030
$C_{16}H_{21}ClN_2O_4$	SB207145	1882
$C_{16}H_{21}NO_2$	(-)-2-beta-Carbomethoxy-3-beta-(phenyl)tropane	4060
$C_{16}H_{21}NO_3$	Rolipram	6000
$C_{16}H_{21}NO_3$	(S)-(+)-Rolipram	6010
$C_{16}H_{21}NO_3$	(R)-(-)-Rolipram	6020
$C_{16}H_{22}O_6S$	Tosyl-propargyl-triethylene glycol	6307
$C_{16}H_{23}BrN_2O_3$	FLB 457	1540
$C_{16}H_{23}FN_4O_2$	CPFPX	3751
$C_{16}H_{23}IN_2O_3$	Epidpride	1522
$C_{16}H_{28}N_3O_3 \cdot CF_3O_3S$	[^{18}F]FPyBrA/[^{18}F]FPyME precursor	4393
$C_{16}H_{28}N_4O_8 \cdot H_2O$	DOTA	7300
$C_{16}H_{31}FO_2S$	14-(R,S)-Fluoro-6-thiaheptadecanoic acid	2860
$C_{16}H_{31}IO_2$	16-Iodoheptadecanoic acid	7600
$C_{16}H_{14}BrN_3O_2$	PD 153035	5210
$C_{17}H_{14}FN_3$	DFEAN	5010
$C_{17}H_{14}N_2O_4S_2$	6-O-Tosyloxyethyl-CBT	5149
$C_{17}H_{15}NO_5S$	N-(2-Tosyloxyethyl)phthalimide	1452
$C_{17}H_{16}N_2O_5$	5'-O-Benzoyl-2,3'-anhydrothymidine	1230
$C_{17}H_{16}N_2O_5$	5'-O-Benzoyl-2,3'-anhydrothymidine (GMP)	1231
$C_{17}H_{17}NO_2$	rac [^{11}C]-AIB precursor	2340
$C_{17}H_{17}NO_2$	S-[^{11}C]-AIB precursor	2342
$C_{17}H_{18}ClNO \cdot HCl$	SCH-23390 hydrochloride	1464
$C_{17}H_{18}ClNO \cdot HCl$	SCH-23388 hydrochloride	1466
$C_{17}H_{19}FINO_2$	Altropane acid	4200
$C_{17}H_{19}FINO_2 \cdot HCl$	Altropane acid hydrochloride	4201
$C_{17}H_{19}FN_2O_3$	FBAM standard	4384
$C_{17}H_{19}NO_3$	(2S,3S)-Desethylreboxetine	4407
$C_{17}H_{20}O_6S_2$	1,3-Propane-di-tosylate	6191
$C_{17}H_{21}ClFINO_2$	FECNT	4190

$C_{17}H_{21}FINO_2$	CITFE	4110
$C_{17}H_{21}FINO_2$	2-FE-beta-CIT	4150
$C_{17}H_{21}N_3O_7S$	FETNIM precursor	1430
$C_{17}H_{22}N_4O$	Desmethyl-WAY 100634	3230
$C_{17}H_{23}Cl_2N_3O$	(S)-(-)-Normethylcarbamoyl-GR 103545	2060
$C_{17}H_{23}Cl_2N_3O$	(R)-(+)-Normethylcarbamoyl-GR 103545	2061
$C_{17}H_{23}Cl_2N_3O$	Normethylcarbamoyl-GR 89696	2062
$C_{17}H_{28}N_2O_3Sn$	TAP	3300
$C_{17}H_{28}N_3O_3 \cdot CF_3O_3S$	TMA-AP	3350
$C_{17}H_{33}N_5O_{13}P_2$	BPAMD	7320
$C_{17}H_{37}NO_3$	Tetrabutylammonium Hydrogen Carbonate (0.075 M) - Aqueous solution, stabilized with ethanol	808
$C_{18}H_{16}ClNO_2$	(+)-Desmethyl-NNC112	1480
$C_{18}H_{16}FN_3$	DMFEAN	5030
$C_{18}H_{16}IN_3$	CNS 1261	7020
$C_{18}H_{17}N_3O$	DMEAN	5020
$C_{18}H_{18}O_6S_2$	1,4-Bis(tosyloxy)but-2-yne	6186
$C_{18}H_{21}FINO_2$	Altropane	4210
$C_{18}H_{21}FINO_2 \cdot HCl$	Altropane hydrochloride	4211
$C_{18}H_{21}NO_3$	(2S,3S)-Methylreboxetine	4406
$C_{18}H_{22}INO_2$	PE2I acid	4160
$C_{18}H_{22}N_2O_2$	(R)-Carazolol	2520
$C_{18}H_{22}N_2O_2$	(S)-Carazolol	2530
$C_{18}H_{22}N_2O_2$	(R,S)-Carazolol	2540
$C_{18}H_{22}O_6S_2$	Bis(tosyl)-1,4-butanediol	6185
$C_{18}H_{23}F_3O_9S$	MBETG	1118
$C_{18}H_{23}FINO_2$	CITFP	4130
$C_{18}H_{23}FN_4O_8$	DCFPyL reference standard	9925
$C_{18}H_{23}FO_2$	16 α -Fluoroestradiol	1910
$C_{18}H_{23}N_3O_7S$	NITTP	1400
$C_{18}H_{23}N_3O_7S$	NITTP (GMP)	1401
$C_{18}H_{23}N_3O_7S$	NITTP (GMP)	1402
$C_{18}H_{24}F_3NO_5Sn$	N-Trifluoroacetyl-5-acetoxy-2-trimethylstannyl-phenylalanine ethyl ester	3100
$C_{18}H_{24}N_4O$	WAY 100634	3200
$C_{18}H_{25}NO_3$	(\pm)-9-O-Desmethyl-tetrabenazine	4733
$C_{18}H_{25}NO_7S$	N-Boc-trans-4-tosyloxy-L-proline methyl ester	2300
$C_{18}H_{25}NO_7S$	N-Boc-cis-4-tosyloxy-L-proline methyl ester	2310
$C_{18}H_{26}N_2O_5$	Disofenin	7060
$C_{18}H_{27}NO_3$	(\pm)-9-O-Desmethyl- α -dihydrotetrabenazine	4700
$C_{18}H_{27}NO_3$	(+)-9-O-Desmethyl- α -dihydrotetrabenazine	4710
$C_{18}H_{27}NO_3$	(-)-9-O-Desmethyl- α -dihydrotetrabenazine	4720
$C_{18}H_{36}N_2O_6$	Cryptand 222	800
$C_{18}H_{40}O_4P_2$	Tetrofosmin	7310
$C_{18}H_{44}N_3O_{16}P_3 \cdot x H_2O$	PrP9	7284
$C_{19}H_{14}N_2OS$	DBCO-SCN	6221
$C_{19}H_{17}N_7O_2$	Desmethyl-SCH-442416	3700

$C_{19}H_{18}ClNO_2$	(+)-NNC112	1490
$C_{19}H_{19}N_3O_4S$	ASEM precursor	3371
$C_{19}H_{20}FNS \cdot C_{20}H_{18}O_8$	(+)-Fluoromethyl-McN 5652	4381
$C_{19}H_{20}N_2O_4S$	D-threo-N-NPS-Ritalinic acid	1592
$C_{19}H_{21}N_3O_{10}S$	1-(2,3-Diacetyl-5-tosyl-(α -D-arabinofuranosyl)-2-nitroimidazole	1450
$C_{19}H_{21}NO_4 \cdot CF_3CO_2H$	Methylreboxetinecarboxylate	4405
$C_{19}H_{21}NS \cdot C_{20}H_{18}O_8$	(+)-McN 5652	4370
$C_{19}H_{21}NS \cdot C_{20}H_{18}O_8$	(-)-McN 5652	4380
$C_{19}H_{24}INO_2$	PE2I	4170
$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$	GR 89696 fumarate	2070
$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$	(R)-(-)-GR103545 fumarate	2071
$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$	(S)-(+)-GR89696 fumarate	2072
$C_{19}H_{26}N_4O_{10}$	Nitro-Xeloda	2952
$C_{19}H_{27}FN_2O_2$	Desmethoxyfallypride	1580
$C_{19}H_{27}NO_3$	(\pm)-Tetrabenazine	4732
$C_{19}H_{27}NO_6$	3,4-Di-O-Pivaloyl-L-DOPA	1328
$C_{19}H_{29}FO_2$	FDHT standard	1918
$C_{19}H_{29}NO_2Sn$	TMS-CT	4040
$C_{19}H_{29}NO_3$	(\pm)- α -Dihydrotetrabenazine	4730
$C_{19}H_{29}NO_3$	(\pm)-beta-Dihydrotetrabenazine	4731
$C_{20}H_{18}N_2O_3$	PBR28 precursor	1652
$C_{20}H_{19}ClN_2O$	(R)-N-Desmethyl PK11195	1600
$C_{20}H_{19}ClN_2O$	(S)-N-Desmethyl PK11195	1620
$C_{20}H_{19}ClN_2O$	(R,S)-N-Desmethyl PK11195	1640
$C_{20}H_{19}N_7O_2$	SCH-442416	3710
$C_{20}H_{21}F_3N_6O$	Desmethyl-GR 205171	3500
$C_{20}H_{21}F_3N_6O \cdot 2 HCl$	Desmethyl-GR 205171 Dihydrochloride	3520
$C_{20}H_{22}FNO_4 \cdot C_2HF_3O_2$	(2S,3S)-Carboxylreboxetine fluoroethyl ester trifluoroacetate	4403
$C_{20}H_{23}NO$	Norbenztropine	4230
$C_{20}H_{25}FINO_2$	FE-PE2I	4173
$C_{20}H_{26}O_6S$	MMSE	1900
$C_{20}H_{29}FN_2O_3$	Fallypride	1560
$C_{20}H_{32}IN_3O_2$	(-)-Flubatine precursor	3353
$C_{20}H_{32}IN_3O_2$	(-)-Flubatine precursor (GMP)	3354
$C_{20}H_{32}IN_3O_2$	(+)-Flubatine precursor	3357
$C_{20}H_{32}IN_3O_2$	(+)-Flubatine precursor (GMP)	3358
$C_{21}H_{20}N_2O_3$	PBR28 standard	1653
$C_{21}H_{21}ClN_2O$	(S)-PK 11195	1609
$C_{21}H_{21}ClN_2O$	(R)-PK11195	1610
$C_{21}H_{21}ClN_2O$	(R,S)-PK11195	1611
$C_{21}H_{23}F_3N_6O$	GR 205171	3510
$C_{21}H_{23}F_3N_6O \cdot 2 HCl$	GR 205171 Dihydrochloride	3530
$C_{21}H_{23}NO_3$	QNB	2830
$C_{21}H_{24}F_2N_2O_2S$	(S)-FPSPPA	2450
$C_{21}H_{24}F_2N_2O_2S$	(R)-FPSPPA	2460
$C_{21}H_{24}FN_3O_2S$	Setoperone	1830

$C_{21}H_{24}N_4O_4S$	Nitro-Setoperone	1820
$C_{21}H_{25}NO \cdot CH_4O_3S$	Benztropine Mesylate	4231
$C_{21}H_{26}BN_3O_5$	Mazenil pinacol boronate	1691
$C_{21}H_{26}FNO_3$	MDL105725	1840
$C_{21}H_{34}ClN_3S_2 \cdot C_6H_3F_9O_6$	TRODAT	7400
$C_{21}H_{35}N_3O_4Sn$	TMSnBG	7012
$C_{22}H_{20}FN_3O_6S$	Tosyloxyethylflumazenil	1721
$C_{22}H_{21}FN_2O_3$	FEPPA standard	1655
$C_{22}H_{22}FN_3O_2S$	Altanserin	1810
$C_{22}H_{22}N_4O_4S$	Nitro-Altanserin	1800
$C_{22}H_{23}F_3O_8S$	MBBTG	1119
$C_{22}H_{25}NOS \cdot C_4H_6O_6$	(+)-McN 5652 Thiobutyrate	4360
$C_{22}H_{26}F_2N_2O_2S$	(S)-Methyl-FPSPPA	2470
$C_{22}H_{26}F_2N_2O_2S$	(R)-Methyl-FPSPPA	2480
$C_{22}H_{26}INO_3$	Me-QNB	2840
$C_{22}H_{27}N_5O_3$	Desmethyl-MPT	3260
$C_{22}H_{27}NO_5$	(2S,3S)-N-Boc-norethylreboxetine	4400
$C_{22}H_{28}FNO_3$	MDL100907	1850
$C_{22}H_{28}FNO_3$	MDL100151	1860
$C_{22}H_{28}FNO_3 \cdot C_4H_6O_6$	MDL100907 tartrate salt	1870
$C_{22}H_{29}N_5O_4 \cdot HCl$	GB 99	2570
$C_{22}H_{30}INO_9$	DiBoc-Iodo-L-DOPA	1320
$C_{22}H_{30}N_2O_4$	Desmethyl-MK-8278	3720
$C_{22}H_{30}NO_2 \cdot CF_3O_3S$	PMBAB	4390
$C_{22}H_{31}F_3O_6S$	FDHT precursor	1916
$C_{23}H_{26}FN_3O_2$	FNMB	2760
$C_{23}H_{26}O_8S$	6-FDG precursor	1109
$C_{23}H_{27}N_2O_3Na$	Desmethycarfentanil, sodium salt	2400
$C_{23}H_{27}NO_6$	(2S,3S)-N-Boc-carboxylreboxetine	4402
$C_{23}H_{28}FNO_2$	(-)-FEBV	4610
$C_{23}H_{28}N_2O_3$	Desmethycarfentanil acid	2390
$C_{23}H_{29}N_5O_3$	MPT	3270
$C_{23}H_{31}N_5O_4 \cdot HCl$	GB 67	2580
$C_{23}H_{32}F_3N_5O_{10}$	deprotected DCFPyL precursor	9941
$C_{23}H_{34}F_3NO_7Sn$	N-Trifluoroacetyl-3,4-di-tert-butoxycarbonyloxy-6-trimethylstannyl-phenethylamine	1371
$C_{24}H_{32}N_4O_2 \cdot x H_2O \cdot y HCl$	Desmethyl-WAY100635	3220
$C_{24}H_{39}NO_7Sn$	N,O-Di-Boc-2-TMSn-L-tyrosine ethyl ester	3000
$C_{24}H_{39}NO_7Sn$	N,O-Di-Boc-2-TMSn-m-tyrosine ethyl ester	3110
$C_{24}H_{44}CuN_4O_4 \cdot BF_4$	Copper tetraMIBI tetrafluoroborate $[Cu(MIBI)_4]BF_4$	7210
$C_{24}H_{44}CuN_4O_4 \cdot BF_4$	Copper tetraMIBI tetrafluoroborate (GMP)	7211
$C_{24}H_{44}N_4O_8$	DOTAEt	7301
$C_{25}H_{23}N_3O_3S$	DMTEAN	5000
$C_{25}H_{27}N_4O_2F$	MPPF	3250
$C_{25}H_{27}N_5O_4$	Nitro-MPPF	3240
$C_{25}H_{29}F_2N_3O_2$	Fluoroethylspiperone	1591
$C_{25}H_{29}FO_5$	FFNP standard	1928

$C_{25}H_{30}INO_5S \cdot C_7H_8O_3S$	CITTP Tosylate	4122
$C_{25}H_{31}FN_2O_3$	Fluoroethyl-Carfentanil	2420
$C_{25}H_{31}FN_2O_3 \cdot HCl$	Fluoroethyl-Carfentanil hydrochloride	2421
$C_{25}H_{31}N_3O_{12}S$	Di-THP-nosyl-AUR	2921
$C_{25}H_{33}FN_2O_4$	ISOF	3591
$C_{25}H_{34}N_4O_2$	WAY 100635	3210
$C_{25}H_{36}INO_{10}$	TriBoc-Iodo-L-DOPA	1350
$C_{25}H_{39}NO_9Sn$	6-Trimethylstannyl-L-DOPA	1300
$C_{25}H_{39}NO_9Sn$	6-Trimethylstannyl-D,L-DOPA	1302
$C_{25}H_{39}NO_9Sn$	6-Trimethylstannyl-D-DOPA	1303
$C_{26}H_{24}N_2O_9S_2$	Dimethyl-8-phenylsulfonyl-5-phenylsulfonyloxy-hexahydropyrrolo[2,3]indol-1,2-dicarboxylate	6520
$C_{26}H_{32}O_8S$	FFNP precursor	1926
$C_{26}H_{34}N_2O_5S$	Tosyl-Desmethoxyfallypride	1570
$C_{26}H_{35}NO_4$	Diprenorphine	2020
$C_{26}H_{36}ClNO_4$	Diprenorphine hydrochloride	2010
$C_{26}H_{36}N_2O_4$	Norverapamil	5600
$C_{26}H_{36}N_2O_4$	(-)-Norverapamil	5620
$C_{26}H_{36}N_2O_7S$	ISOM	3590
$C_{26}H_{38}N_4O_8Sn$	SGMIB Precursor	7015
$C_{27}H_{21}F_3O_{10}S$	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -L-ribofuranose	2869
$C_{27}H_{21}F_3O_{10}S$	2-O-(Trifluoromethylsulfonyl)-1,3,5-tri-O-benzoyl- α -D-ribofuranose	2870
$C_{27}H_{28}N_2O_3$	N-Methylnaltrindole	2810
$C_{27}H_{29}FN_4O$	O-Desmethyl Astemizole	5166
$C_{27}H_{32}INO_5S$	TEO-PE2I	4172
$C_{27}H_{36}FNO_4$	6-O-Fluoroethyl-6-O-desmethyl-diprenorphine	2040
$C_{27}H_{36}N_2O_6S$	Tosyl-Fallypride	1550
$C_{27}H_{38}N_2O_4 \cdot HCl \cdot H_2O$	(+)-Verapamil hydrochloride	5630
$C_{27}H_{41}N_9O_7$	Cyclo-RGDfK	9860
$C_{27}H_{45}NO_8Sn$	OMFD precursor ABX004	1363
$C_{28}H_{31}FN_4O$	Astemizole	5165
$C_{28}H_{35}FN_2O_5$	Nucleophilic F-L-DOPA precursor	1335
$C_{28}H_{45}NO_{10}Sn$	TriBoc-L-DOPA methyl ester	1340
$C_{28}H_{47}NO_2Sn$	TBS-CT	4041
$C_{28}H_{50}N_2O_3Sn$	Tin-epidepride precursor	1521
$C_{29}H_{28}N_2O_6S$	FEPPA precursor	1654
$C_{29}H_{40}N_4O_7S$	CPTPX	3750
$C_{29}H_{41}NO_4 \cdot HCl$	Buprenorphine hydrochloride	2056
$C_{29}H_{47}NO_{10}Sn$	TriBoc-D,L-DOPA ethyl ester	1341
$C_{29}H_{47}NO_{10}Sn$	TriBoc-L-DOPA ethyl ester	1342
$C_{30}H_{35}NO_4$	Phenethyl-orvinol	2052
$C_{30}H_{35}NO_5S$	(-)-TEBV	4600
$C_{30}H_{43}N_3Sn$	TBS-CNS 1261	7030
$C_{30}H_{44}O_5S_2$	Benzyl-14-(R,S)-tosyloxy-6-thiaheptadecanoate	2850
$C_{30}H_{50}FNO_2Sn$	TBSCT-FP	4132
$C_{31}H_{27}IN_2O_5S$	5-Fluorouracil precursor	2958

C ₃₁ H ₃₀ N ₂ O ₆	Anhydrothymidine-FLT precursor	1210
C ₃₁ H ₃₂ N ₂ O ₇	DMTr-lysothymidine	1180
C ₃₁ H ₃₆ FNO ₄	6-O-(2-Fluoroethyl)-6-O-desmethyl-phenethyl-orvinol	2053
C ₃₁ H ₅₁ NO ₂ Sn	PE2I tin precursor	4165
C ₃₃ H ₃₂ N ₂ O ₃	3-O-Benzyl-naltrindole	2800
C ₃₃ H ₃₉ NO ₈ S	TNB-Androstanone	1919
C ₃₃ H ₄₆ N ₁₂ O ₈	HYNIC-cyclo(RGDfK) trifluoroacetate	9864
C ₃₃ H ₅₄ BNO ₁₂	F-L-DOPA pinacol boronate precursor	1312
C ₃₄ H ₄₂ N ₂ O ₆	Fmoc-Lys(ivDde)-OH	9500
C ₃₄ H ₄₈ N ₂ O ₁₀	HBED-CC-di(tBu)ester	7331
C ₃₄ H ₅₂ N ₁₀ O ₁₂	Galacto-RGD	9790
C ₃₄ H ₅₄ BN ₃ O ₁₀	MFBG pinacol boronate precursor	7033
C ₃₅ H ₃₆ N ₂ O ₇	n.c.a. Nucleophilic F-L-DOPA precursor	1336
C ₃₅ H ₄₉ F ₄ FeN ₆ O ₁₁	TFP-N-sucDf-Fe	7270
C ₃₆ H ₃₉ FN ₂ O ₈	3-N-Boc-5'-O-dimethoxytrityl-3'-fluorothymidine	1261
C ₃₆ H ₄₄ FN ₃ O ₆ S	N-Mesitylenesulfonyloxy-ethyl-spiperone	1590
C ₃₇ H ₃₅ N ₃ O ₁₁ S	DMTr-Nosyl-lysothymidine	1190
C ₃₇ H ₅₅ FN ₁₀ O ₁₃	Fluoropropionyl-Galacto-RGD	9800
C ₃₈ H ₅₆ N ₂ O ₁₀	HBED-CC-tris(tBu)ester	7330
C ₃₉ H ₆₀ N ₁₂ O ₁₂ · x CH ₃ CO ₂ H	NOTA-RGDfK acetate	9802
C ₄₀ H ₄₃ N ₃ O ₆ · 2 HCl	Norbinaltorphimine dihydrochloride	4500
C ₄₁ H ₄₃ NO ₆ S	TET	3050
C ₄₁ H ₄₃ NO ₆ S	TET (GMP)	3051
C ₄₁ H ₄₃ NO ₆ S	TET (GMP)	3052
C ₄₂ H ₄₃ N ₃ O ₁₃ S	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	1240
C ₄₂ H ₄₃ N ₃ O ₁₃ S	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine (GMP)	1241
C ₄₂ H ₅₆ N ₄ O ₁₂	N-Demethylrifampicin	5700
C ₄₂ H ₆₄ N ₁₂ O ₁₅	NODAGA-RGD trifluoroacetate	9805
C ₄₂ H ₆₄ N ₁₂ O ₁₅	NODAGA-RGD (GMP)	9806
C ₄₂ H ₆₁ GaN ₁₂ O ₁₅	Ga-NODAGA-RGD	9807
C ₄₃ H ₆₇ N ₁₃ O ₁₄	DOTA-cyclo(RGDfK) acetate	9863
C ₄₄ H ₄₇ NO ₄	3-O-Trityl-6-O-desmethyl-diprenorphine	2000
C ₄₄ H ₆₂ N ₆ O ₁₇ · x CF ₃ CO ₂ H	PSMA-11 (GMP)	9919
C ₄₄ H ₆₂ N ₆ O ₁₇ · x CF ₃ CO ₂ H	PSMA-11	9920
C ₄₄ H ₆₂ N ₆ O ₁₇ · x CF ₃ CO ₂ H	PSMA-11 (GMP)	9921
C ₄₄ H ₅₉ GaN ₆ O ₁₇	GaPSMA-11	9922
C ₄₅ H ₄₉ NO ₄	3-O-Trityl-diprenorphine	2030
C ₄₆ H ₄₅ N ₃ O ₁₃ S	Dimethoxybenzyl-FLT precursor	1200
C ₄₆ H ₅₀ FNO ₄	6-O-Fluoroethyl-6-O-desmethyl-3-O-trityl-diprenorphine	2050
C ₄₇ H ₅₃ NO ₄	3-O-Trityl-6-O-desmethyl-buprenorphine	2055
C ₄₈ H ₄₇ NO ₄	3-O-Trityl-6-O-desmethyl-phenethyl-orvinol	2051
C ₄₉ H ₅₅ FN ₈ O ₁₆	PSMA-1007 reference standard	99433
C ₄₉ H ₆₄ N ₁₀ O ₁₁ S ₂	[Lys ⁵ (Boc)]octreotate acetate	9901
C ₄₉ H ₆₄ N ₁₀ O ₁₂ S ₂	[Tyr ³]Octreotate acetate	9774
C ₄₉ H ₆₆ N ₁₀ O ₁₀ S ₂	Octreotide acetate	9750
C ₄₉ H ₆₆ N ₁₀ O ₁₁ S ₂	[Tyr ³]Octreotide acetate	9810

C ₄₉ H ₇₁ N ₉ O ₁₆	PSMA-617	9933
C ₄₉ H ₇₁ N ₉ O ₁₆	PSMA-617 (GMP)	9934
C ₄₉ H ₆₈ Ga ₁ N ₉ O ₁₆ · x CF ₃ CO ₂ H	GaPSMA-617	9935
C ₄₉ H ₆₈ Lu ₁ N ₉ O ₁₆ · x CF ₃ CO ₂ H	LuPSMA-617	9936
C ₅₃ H ₆₈ N ₁₀ O ₁₀ S ₂	[Nal ³]Octreotide acetate	9752
C ₅₄ H ₆₄ F ₃ N ₉ O ₁₈	PSMA-1007 precursor	9943
C ₅₄ H ₆₉ N ₁₁ O ₁₀ S ₂	Lanreotide trifluoroacetate	9820
C ₅₄ H ₇₄ N ₁₀ O ₁₃ S ₂	[Tyr ³ ,Lys ⁵ (Boc)]octreotide acetate	9900
C ₅₅ H ₇₁ N ₁₃ O ₁₂ S ₂	HYNIC-TOC trifluoroacetate	9721
C ₅₇ H ₅₃ N ₅ O ₇ S	Tosyl-FHBG	2960
C ₅₈ H ₇₆ N ₁₀ O ₁₂ S ₂	[Nal ³ ,Lys ⁵ (Boc)]octreotide acetate	9903
C ₅₉ H ₇₃ N ₁₃ O ₁₁ S ₂	HYNIC-NOC trifluoroacetate	9730
C ₅₉ H ₇₇ N ₁₁ O ₁₂ S ₂	[Lys ⁵ (Boc)]lanreotide acetate	9902
C ₅₉ H ₈₇ N ₁₉ O ₁₆	Cyclo-RGDfK dimer trifluoroacetate	9861
C ₆₀ H ₇₄ N ₁₄ O ₁₁ S ₂	HYNIC-Lanreotide trifluoroacetate	9836
C ₆₁ H ₈₅ N ₁₃ O ₁₅ S ₂	NOTA-Octreotide trifluoroacetate	9762
C ₆₂ H ₉₂ N ₁₀ O ₂₄ · x CF ₃ CO ₂ H	PSMA-10	9923
C ₆₃ H ₈₇ N ₁₃ O ₁₉ S ₂	Pentreotide trifluoroacetate	9740
C ₆₃ H ₈₇ N ₁₃ O ₂₀ S ₂	DTPA-TOC trifluoroacetate	9744
C ₆₄ H ₉₂ N ₁₈ O ₁₆ S	NOTA-AMBA trifluoroacetate	9815
C ₆₅ H ₈₇ N ₁₃ O ₁₅ S ₂	NOTA-NOC acetate	9765
C ₆₅ H ₈₉ N ₁₄ O ₁₈ S ₂ Y	Y-DOTA-TOC	9704
C ₆₅ H ₉₀ N ₁₄ O ₁₉ S ₂	DOTA-TATE acetate (GMP)	9772
C ₆₅ H ₉₂ N ₁₄ O ₁₈ S ₂	DOTATOC (GMP)	9702
C ₆₅ H ₉₂ N ₂₂ O ₁₇ S ₂	HYNIC-cyclo(RGDfK) dimer trifluoroacetate	9867
C ₆₅ H ₈₇ Ga ₁ N ₁₄ O ₁₉ S ₂	Ga-DOTA-TATE	9773
C ₆₅ H ₈₉ Ga ₁ N ₁₄ O ₁₈ S ₂	Ga-DOTA-TOC acetate	9703
C ₆₅ H ₈₉ Lu ₁ N ₁₄ O ₁₈ S ₂	Lu-DOTA-TOC	9705
C ₆₇ H ₉₆ N ₁₄ O ₁₇ S ₂	TETA-Octreotide acetate	9760
C ₆₇ H ₉₆ N ₁₈ O ₁₈ S	NODAGA-AMBA trifluoroacetate	9814
C ₆₈ H ₉₁ N ₁₃ O ₁₇ S ₂	NODAGA-NOC acetate	9718
C ₆₈ H ₉₉ N ₁₉ O ₁₈ S	AMBA acetate	9714
C ₆₈ H ₁₀₀ N ₂₀ O ₁₈	DOTA-NAPamide trifluoroacetate	9855
C ₆₈ H ₁₂₁ N ₃₁ O ₁₈ S	Ubiquicidin (29-41) acetate	9600
C ₆₈ H ₁₂₁ N ₃₁ O ₁₈ S	Scrambled Ubiquicidin (29-41)	9602
C ₆₉ H ₉₄ N ₁₄ O ₁₇ S ₂	DOTA-NOC acetate	9712
C ₆₉ H ₉₄ N ₁₄ O ₁₇ S ₂	DOTA-NOC acetate (GMP)	9716
C ₆₉ H ₉₁ Ga ₁ N ₁₄ O ₁₇ S ₂	Ga-DOTA-NOC	9717
C ₇₀ H ₇₄ N ₁₀ O ₁₈ S ₂	5(6)-FAM-TATE	9908
C ₇₀ H ₉₅ N ₁₅ O ₁₇ S ₂	DOTA-Lanreotide acetate	9831
C ₇₄ H ₁₀₄ N ₁₂ O ₂₀ S ₂	Gluc-[Lys ⁰ ,Lys(ivDde) ⁵]-TOCA	9771
C ₇₄ H ₁₀₇ Ga ₁ N ₂₂ O ₂₅	Ga-NODAGA-RGD dimer	9803
C ₇₄ H ₁₁₀ N ₂₂ O ₂₅	NODAGA-RGD dimer acetate	9804
C ₇₄ H ₁₁₀ N ₂₄ O ₁₈ S · x CF ₃ CO ₂ H	[Pro ¹ ,Tyr ⁴]bombesin (1-14)	9816
C ₇₅ H ₁₁₃ N ₂₃ O ₂₃	DOTA-RGDfK dimer acetate	9862
C ₇₇ H ₁₀₇ FN ₁₂ O ₂₁ S ₂	Gluc-Lys(FP)-TOCA	9778

$C_{79}H_{124}N_{22}O_{20} \cdot x CH_3CO_2H<$	DOTA-Substance P	9960
$C_{80}H_{140}N_{34}O_{23}S \cdot x CH_3CO_2H$	NOTA-Ubiquicidin (29-41) acetate	9603
$C_{81}H_{115}N_{23}O_{26}S$ (net peptide)	DTPA-Bn-cyclo(RDGfK) dimer trifluoroacetate	9866
$C_{84}H_{147}N_{35}O_{25}S$	DOTA-Ubiquicidin (29-41) acetate	9601
$C_{90}H_{136}N_{28}O_{25}S<$	DOTA-[Pro ¹ ,Tyr ⁴]bombesin (1-14)	9715
$C_{94}H_{112}N_{12}O_{16}S_3$	ICG-TATE	9782
$C_{114}H_{155}N_{25}O_{38}$	DOTA-Sargastrin	9857
CH_2Br_2	Dibromomethane	6176
$CH_4Na_2O_7P_2$	HMDP	7161
$CH_6O_6P_2$	MDP	7160
$LiAlH_4$	Lithium Aluminium Hydride in THF bulk	801
$LiAlH_4$	Lithium aluminium hydride (0.1 M in THF)	802
$LiAlH_4$	Lithium aluminium hydride (0.25 M in THF)	803
$LiAlH_4$	Lithium aluminium hydride (0.05 M in THF)	804
$LiAlH_4$	Lithium aluminium hydride (0.1 M in THF)	832
$LiAlH_4$	Lithium aluminium hydride (0.1 M in THF)	832

ABX advanced biochemical compounds

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