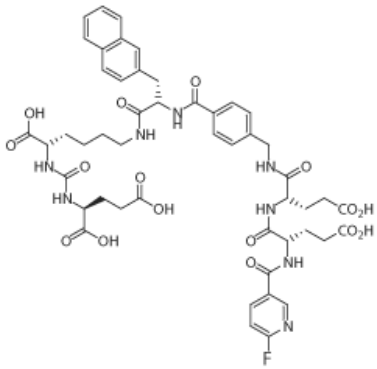
Catalogue Number	Product	Order number / Unit

99433 PSMA-1007 reference standard

99433.0005: 5 mg per vial
99433.0010: 10 mg per vial
Please inquire for customized filling and bulk quantities.



Reference Standard for [^{18}F]PSMA-1007

Research Chemical

Molar Mass: 1031.00

$C_{49}H_{55}FN_8O_{16}$

CAS-RN not yet assigned

Colourless to off-white solid packaged in dark glass screw cap vials.

Purity: > 95 %

Certificates:
CoA; ^{1}H and ^{19}F NMR spectra (identity); HPLC (purity)

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

Synonymes:
[^{18}F]PSMA-1007 standard

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 [^{18}F]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. ^{18}F-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 ^{18}F-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

date of product catalogue issue: 10 May 2017