

Catalogue Number	Product	Order number / Unit
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9943

PSMA-1007 precursor

Precursor for [¹⁸F]PSMA-1007
PSMA: prostate-specific membrane antigen

Research Chemical

Molar Mass: 1184.13

C₅₄H₆₄F₃N₉O₁₈

CAS-RN not yet assigned

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

Purity: > 95 %

Certificates:

CoA; ¹H NMR spectrum (identity); HPLC (purity)

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

Synonyms:

deprotected [¹⁸F]PSMA-1007 precursor; Glu-CO-Lys(2Nal-Amb-Glu-Glu-PyTMA); EuK(2Nal-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

Literature:

Giesel F.L. et al. ¹⁸F-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

9943.0001: 1 mg per vial
 9943.0002: 2 mg per vial
 Please inquire for customized filling and bulk quantities.

