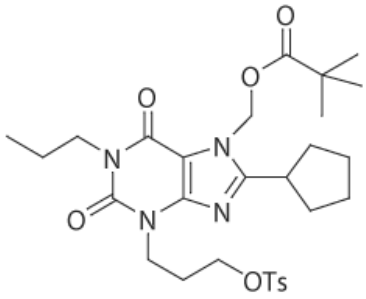
Catalogue Number	Product	Order number / Unit

3750 CPTPX

3750.0010: 10 mg per vial
Please inquire for customized filling and bulk quantities.



Precursor for [^{18}F]CPFPX
8-Cyclopentyl-3-(3-[^{18}F]fluoropropyl)-1-propylxanthine

Molar Mass: 588.72

$C_{29}H_{40}N_4O_7S$

[478173-67-0]

Colourless solid packaged in dark glass vials.

Purity: > 95 %

Certificates:
CoA; ^{1}H NMR spectrum

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

Synonymes:
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

Literature:

Holschbach M. H. et al. Synthesis and Evaluation of No-Carrier-Added 8-Cyclopentyl-3-(3-[^{18}F] fluoropropyl)-1-propylxanthine ([^{18}F]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 ^{18}F-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 [^{18}F]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 ^{18}F-CPFPX and PET. J. Nucl. Med. 2012, 53, 1723-1729.

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