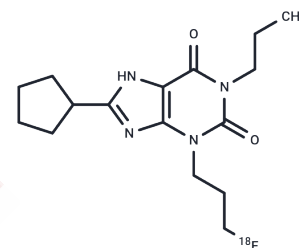


## CPFPX

## Chemical Properties

CAS No. :	227205-79-0
Formula:	C <sub>16</sub> H <sub>23</sub> FN <sub>4</sub> O <sub>2</sub>
Molecular Weight:	321.38
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CPFPX is a highly selective radioactive ligand for the A1 adenosine receptor (A1AR).
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1116 mL	15.5579 mL	31.1158 mL
5 mM	0.6223 mL	3.1116 mL	6.2232 mL
10 mM	0.3112 mL	1.5558 mL	3.1116 mL
50 mM	0.0622 mL	0.3112 mL	0.6223 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Kroll T, Elmenhorst D, Weisshaupt A, Beer S, Bauer A. Reproducibility of non-invasive a1 adenosine receptor quantification in the rat brain using [(18F)]CPFPX and positron emission tomography. *Mol Imaging Biol.* 2014 Oct; 16(5):699-709. doi: 10.1007/s11307-014-0729-0. PubMed PMID: 24595700.
- Elmenhorst D, Kroll T, Wedekind F, Weisshaupt A, Beer S, Bauer A. In vivo kinetic and steady-state quantification of 18F-CPFPX binding to rat cerebral A1 adenosine receptors: validation by displacement and autoradiographic experiments. *J Nucl Med.* 2013 Aug;54(8):1411-9. doi: 10.2967/jnumed.112.115576. PubMed PMID: 23740103.
- Elmenhorst D, Meyer PT, Matusch A, Winz OH, Bauer A. Caffeine occupancy of human cerebral A1 adenosine receptors: in vivo quantification with 18F-CPFPX and PET. *J Nucl Med.* 2012 Nov;53(11):1723-9. doi: 10.2967/jnumed.112.105114. PubMed PMID: 22966134.

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