

[11C]MP 10

Chemical Properties

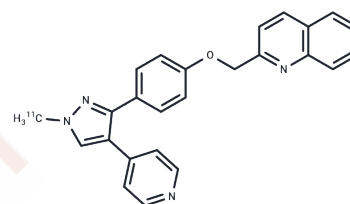
CAS No. : 1292799-56-4

Formula: C₂₅H₂₀N₄O

Molecular Weight: 391.45

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	[11C]MP 10 (PF-2545920), a specific and effective PDE10A inhibitor (IC ₅₀ =0.37 nM), is with more than 1000-fold specificity activity over the PDE.
Targets(IC ₅₀)	PDE
In vitro	PF-2545920 shows excellent potency and specificity in PDE10A with IC ₅₀ of 1.26 nM.

Solubility Information

Solubility	Ethanol: 69 mg/mL (176.27 mM), Sonication is recommended. DMSO: 79 mg/mL (201.81 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5546 mL	12.773 mL	25.546 mL
5 mM	0.5109 mL	2.5546 mL	5.1092 mL
10 mM	0.2555 mL	1.2773 mL	2.5546 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Grauer SM, et al. J Pharmacol Exp Ther, 2009, 331(2), 574-590.

Verhoest PR, et al. J Med Chem, 2009, 52(16), 5188-5196.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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