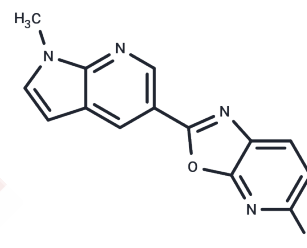


MK-3328

Chemical Properties

CAS No. : 1201323-97-8
 Formula: C₁₄H₉FN₄O
 Molecular Weight: 268.25
 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	MK-3328 has a high affinity for β -Amyloid (IC ₅₀ :10.5 nM), and can be used as a candidate PET ligand for clinical assessment of β -amyloid plaque load. MK-3328 is a potential treatment for Alzheimer's disease.
Targets(IC ₅₀)	Beta Amyloid
In vitro	MK-3328 displays amyloid binding potency balanced with low levels of nonspecific binding.[1]
In vivo	In normal rhesus monkey positron emission tomography (PET) imaging studies, [18F] MK-3328 demonstrates favorable kinetics, exhibiting high brain uptake, and good washout.[2]

Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7279 mL	18.6393 mL	37.2787 mL
5 mM	0.7456 mL	3.7279 mL	7.4557 mL
10 mM	0.3728 mL	1.8639 mL	3.7279 mL
50 mM	0.0746 mL	0.3728 mL	0.7456 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

Harrison ST, et al. Synthesis and Evaluation of 5-Fluoro-2-aryloxazolo[5,4-b]pyridines as β -Amyloid PET Ligands and Identification of MK-3328. ACS Med Chem Lett. 2011;2(7):498-502.

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