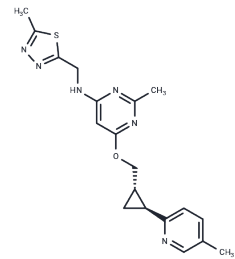


MK-8189

Chemical Properties

CAS No. :	1424371-93-6
Formula:	C19H22N6OS
Molecular Weight:	382.48
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	MK-8189 is a potent and selective pyrimidine PDE10A inhibitor, $K_i = 0.029\text{nM}$, with excellent PDE (phosphodiesterase) selectivity for the treatment of schizophrenia.
Targets(IC50)	PDE
In vivo	MK-8189 exhibited dose-dependent PDE10A target occupancy in both rats and rhesus monkeys (0.1-10 mg/kg; p.o.; 1-4h), significantly suppressed conditioned avoidance response, reversed MK-801-induced prepulse inhibition deficits, and increased striatal levels of cGMP and pGluR1. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (261.45 mM), Sonication is recommended. ($< 1\text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6145 mL	13.0726 mL	26.1452 mL
5 mM	0.5229 mL	2.6145 mL	5.229 mL
10 mM	0.2615 mL	1.3073 mL	2.6145 mL
50 mM	0.0523 mL	0.2615 mL	0.5229 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

Layton ME, et al. Discovery of MK-8189, a Highly Potent and Selective PDE10A Inhibitor for the Treatment of Schizophrenia. J Med Chem. 2023 Jan 26;66(2):1157-1171.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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