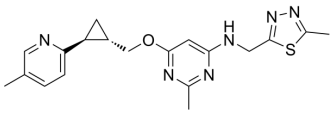
MK-8189

Cat. No.:	HY-153093
CAS No.:	1424371-93-6
Molecular Formula:	$C_{19}H_{22}N_6OS$
Molecular Weight:	382.48
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (326.81 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6145 mL	13.0726 mL	26.1452 mL
	5 mM	0.5229 mL	2.6145 mL	5.2290 mL
	10 mM	0.2615 mL	1.3073 mL	2.6145 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MK-8189 is a potent, orally active and selective PDE10A inhibitor with a K_i value of 29 pM. MK-8189 can be used in research of schizophrenia[1].

IC_{50} & Target

PDE10A
29 pM (Ki)

In Vivo

MK-8189 (0.25-0.75 mg/kg; po) attenuates rats' locomotor activity in a dose-dependent manner[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar-Hannover rats[1]
Dosage:	0.25, 0.5, and 0.75 mg/kg
Administration:	Oral administration
Result:	Improved identification ability relative to the vector handling animal.

REFERENCES

[1]. 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA