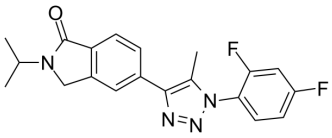
DFMTI

Cat. No.:	HY-100404
CAS No.:	864864-86-8
Molecular Formula:	$C_{20}H_{18}F_2N_4O$
Molecular Weight:	368.38
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (67.86 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7146 mL	13.5729 mL	27.1459 mL
	5 mM	0.5429 mL	2.7146 mL	5.4292 mL
	10 mM	0.2715 mL	1.3573 mL	2.7146 mL

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

BIOLOGICAL ACTIVITY

Description

DFMTI can completely block the rmGlu1 L757V glutamate response.In vitro: DFMTI can completely block the rmGlu1 L757V glutamate response, although significantly higher concentrations were required to induce blockade.In vivo: DFMTI is efficacious in disrupting prepulse inhibition when dosed orally in rats. DFMTI exhibits a moderate decrease in human potency of approximately 3-fold when compared to rat, exemplified by DFMTI.

IC_{50} & Target

mGluR1

REFERENCES

[1]. Eric D Hostetler, et al. Synthesis, Characterization, and Monkey PET Studies of [^{18}F]MK-1312, a PET Tracer for Quantification of mGluR1 Receptor Occupancy by MK-5435. Synapse. 2011 Feb;65(2):125-35.

Caution: Product has not been fully validated for medical applications. For research use only.

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