Product Data Sheet

Product Name: FTIDC
Cat. No.: GC50087

Chemical Properties

Cas. No.	873551-53-2		
SMILES	O=C(N(C(C)C)C)N1CC=C(C2=C(C)N(C3=C(F)N=CC=C3)N=N2)CC1		
Formula	$C_{18}H_{23}FN_6O$	M.Wt	358.41
Solubility	DMSO : ≥ 100 mg/mL (279.01 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	FTIDC		

Background

Potent and selective mGlu1 receptor negative allosteric modulator (IC50 values are 5.8 and 6200 nM for mGlu1 and mGlu5 respectively). Also acts as an mGlu1 receptor inverse agonist (IC50 = 7 nM) in the absence of ligand. Exhibits no effect at group II/III mGlu receptors. Inhibits L-glutamate-induced increases in intracellular calcium in mGlu1-expressing CHO cells. Inhibits nociceptive behavior, and exhibits anxiolytic and antipsychotic effects in vivo. Orally active.

Suzuki et al (2007) Pharmacological characterization of a new, orally active and potent allosteric metabotropic glutamate receptor 1 antagonist, 4-[1-(2-fluoropyridin-3-yl)-5-methyl-1H-1,2,3-triazol-4-yl]-N-isopropyl-N-methyl-3,6-dihydropyridine-1(J.Pharmacol.Exp.Ther. 321 1144 PMID:17360958 |Ito et al (2008) Discovery and biological profile of 4-(1-aryltriazol-4-yl)-tetrahydropyridines as an orally active new class of metabotropic glutamate receptor 1 antagonist. Bioorg.Med.Chem. 16 9817 PMID:18849168 |Satow et al (2008) Pharmacological effects of the metabotropic glutamate receptor 1 antagonist compared with those of the metabotropic glutamate receptor 5 antagonist and metabotropic glutamate receptor 2/3 agonist in rodents: detailed investigations with a selective allost J.Pharmacol.Exp.Ther. 326 577

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