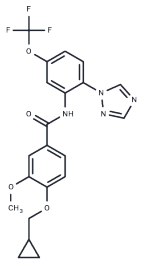
Data Sheet (Cat.No.T13323)

TargetMol

VU6012962

Chemical Properties



CAS No. : 2313526-86-0

Formula: C21H19F3N4O4

Molecular Weight: 448.4

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	VU6012962 is an orally bioavailable negative allosteric modulator of CNS-penetrant metabotropic glutamate receptor 7(mGlu7; IC50: 347 nM).
Targets(IC50)	GluR
In vitro	Compared to the other seven mGlu receptor subtypes, VU6012962 is highly selective for mGlu7.
In vivo	In the elevated zero maze (EZM) assay in mice, VU6012962 (1-10 mg/kg; i.p. injection; 60 minutes prior to testing) decreases anxiety .

Solubility Information

Solubility	DMSO: 125 mg/mL (278.77 mM),Sonication is recommended. H2O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.36 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2302 mL	11.1508 mL	22.3015 mL
5 mM	0.446 mL	2.2302 mL	4.4603 mL
10 mM	0.223 mL	1.1151 mL	2.2302 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Reed CW, et al. Discovery of an orally bioavailable and Central Nervous System (CNS) penetrant mGlu7 NegativeAllosteric Modulator (NAM) in vivo tool compound: N-(2-(1H-1,2,4-triazol-1-yl)-5-(trifluoromethoxy) phenyl)-4-(cyclopropylmethoxy)-3-methoxybenzamide (VU6012962). J Med Chem. 2019 Jan 4.