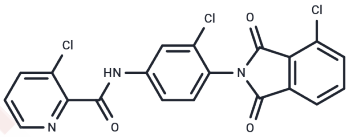
Data Sheet (Cat.No.T21747)

VU0483605

Chemical Properties



CAS No. : 1623101-11-0

Formula: C20H10Cl3N3O3

Molecular Weight: 446.67

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	VU0483605 is an effective and selective positive allosteric modulator of mGluR1 with EC50s of 390 and 356 nM for human and rat, respectively.
Targets(IC50)	GluR
In vitro	VU0483605 shows excellent mGlu1 PAM activity at both human and rat (pEC50 = 6.45 ± 0.11, 113 ± 5% Glu Max) and no activity as an mGlu4 PAM (EC50 >10 μM)[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (212.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.39 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	2.2388 mL	11.1939 mL	22.3879 mL
5 mM	0.4478 mL	2.2388 mL	4.4776 mL
10 mM	0.2239 mL	1.1194 mL	2.2388 mL
50 mM	0.0448 mL	0.2239 mL	0.4478 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

Cho HP, Garcia-Barrantes PM, Brogan JT, et al. Chemical modulation of mutant mGlu1 receptors derived from deleterious GRM1 mutations found in schizophrenics. ACS Chem Biol. 2014;9(10):2334-2346.