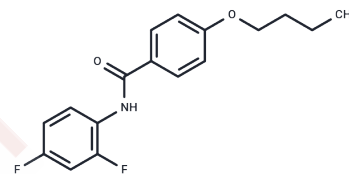


VU 0357121

Chemical Properties

CAS No. : 433967-28-3
 Formula: C17H17F2NO2
 Molecular Weight: 305.32
 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	VU0357121, a positive allosteric modulator of mGlu5 (EC50: 33 nM), is inactive or very weakly antagonizing at other mGlu receptor subtypes.
Targets(IC50)	GluR
In vitro	VU0357121 do not bind at the MPEP allosteric site of mGlu5, thus do not possess mGlu5 NAM activity. The A809V/rmGlu5 mutation inhibited the ability of VU0357121 to shift the glutamate concentration?response curve, whereas the response to VU0357121 is not altered by the F585I/rmGlu5 mutation. [1] VU0357121 show weaker cooperativity in the Ca ²⁺ mobilization assay in the low-expressing HEK293A-mGlu5 cell line. [2]

Solubility Information

Solubility	Ethanol: 30.5 mg/mL (99.9 mM),Sonication is recommended. DMSO: 30.5 mg/mL (99.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (6.55 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2753 mL	16.3763 mL	32.7525 mL
5 mM	0.6551 mL	3.2753 mL	6.5505 mL
10 mM	0.3275 mL	1.6376 mL	3.2753 mL
50 mM	0.0655 mL	0.3275 mL	0.6551 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

Hammond AS, et al. ACS Chem Neurosci, 2010, 1(10), 702-716.

Gregory KJ, et al. Mol Pharmacol, 2012 Aug 3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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