

(1R,2S)-VU0155041

Chemical Properties

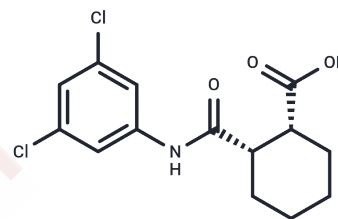
CAS No. : 1263273-14-8

Formula: C₁₄H₁₅Cl₂NO₃

Molecular Weight: 316.18

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	(1R,2S)-VU0155041 is the cis regioisomer of VU0155041 and a partial agonist of mGluR4.
Targets(IC50)	GluR
In vitro	(1R,2S)-VU0155041 is similar in potency with VU0155041 At both human and rat receptors (798 nM at human mGluR4 and 693 nM at rat mGluR4). (1R,2S)-VU0155041 (30 μM) induces concentration-dependent shifts in the baseline when examined in fold shift experiments using the thallium flux assay[1].

Solubility Information

Solubility	DMSO: 54 mg/mL (170.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.91 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	3.1628 mL	15.8138 mL	31.6276 mL
5 mM	0.6326 mL	3.1628 mL	6.3255 mL
10 mM	0.3163 mL	1.5814 mL	3.1628 mL
50 mM	0.0633 mL	0.3163 mL	0.6326 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

Niswender CM, et al. Discovery, characterization, and antiparkinsonian effect of novel positiveallosteric modulators of metabotropic glutamate receptor 4. Mol Pharmacol. 2008 Nov;74(5):1345-58.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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