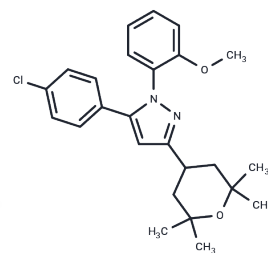


Cav 2.2 blocker 1

Chemical Properties

CAS No. :	1567335-29-8
Formula:	C ₂₅ H ₂₉ ClN ₂ O ₂
Molecular Weight:	424.96
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	Cav 2.2 blocker 1 is an N-type calcium channel (Cav 2.2; IC ₅₀ : 1 nM) blocker for the treatment of pain.
Targets(IC ₅₀)	Calcium Channel

Solubility Information

Solubility	DMSO: 20 mg/mL (47.06 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: 2 mg/mL (4.71 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	2.3532 mL	11.7658 mL	23.5316 mL
5 mM	0.4706 mL	2.3532 mL	4.7063 mL
10 mM	0.2353 mL	1.1766 mL	2.3532 mL
50 mM	0.0471 mL	0.2353 mL	0.4706 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

Wall MJ, et al. Discovery and optimization of a novel series of pyrazolyltetrahydropyran N-type calcium channel (Cav 2.2) blockers for the treatment of pain. Bioorg Med Chem Lett. 2018 Dec 15;28(23-24):3780-3783.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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