

## CaV1.3 antagonist-1

## Chemical Properties

CAS No. : 1391385-57-1

Formula: C<sub>17</sub>H<sub>19</sub>ClN<sub>2</sub>O<sub>3</sub>

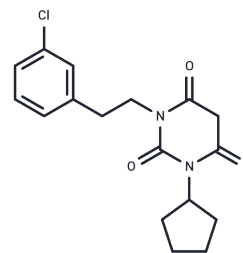
Molecular Weight: 334.8

Keep away from direct sunlight, Store at low temperature

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	CaV1.3 antagonist-1 is a selective CaV1.3L-type calcium channel antagonist useful for researching neurological disorders and cardiovascular diseases.
Targets(IC <sub>50</sub> )	Calcium Channel
In vitro	CaV1.3 antagonist-1 is a CaV1.3L calcium channel antagonist with an IC <sub>50</sub> of 1.7 μM. CaV1.3 antagonist-1 (5μM) inhibited the CaV1.3 and CaV1.2 channel currents in HEK293 cells by 31.2% and 4.4%, respectively. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (238.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9869 mL	14.9343 mL	29.8686 mL
5 mM	0.5974 mL	2.9869 mL	5.9737 mL
10 mM	0.2987 mL	1.4934 mL	2.9869 mL
50 mM	0.0597 mL	0.2987 mL	0.5974 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

Kang S, et al. CaV1.3-selective L-type calcium channel antagonists as potential new therapeutics for Parkinson's disease. Nat Commun. 2012;3:1146.

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