

SNX-482

Chemical Properties

CAS No. : 203460-30-4

Formula: C192H274N52O60S7

Molecular Weight: 4495.01

GVDKAGCRYMFGGGSVNDCCPRLGCHSLFSYCAWDLTFSQ

(Disulfide bridge: Cys8-Cys21, Cys14-Cys26, Cys20-Cys33)

Keep away from moisture

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	Potent and selective, voltage-dependent R-type CaV2.3 calcium channel blocker (IC50 = 30 nM). Antinociceptive; inhibits nociceptive C-fibre and Aδ-fibre-evoked neuronal responses.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	H2O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2225 mL	1.1123 mL	2.2247 mL
5 mM	0.0445 mL	0.2225 mL	0.4449 mL
10 mM	0.0222 mL	0.1112 mL	0.2225 mL
50 mM	0.0044 mL	0.0222 mL	0.0445 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

Newcomb et al (1998) Selective peptide antagonist of the class E calcium channel from the venom of the Tarantula *Hysterocrates gigas*. *Biochemistry* 37 15353 PMID:

Bourinet et al (2001) Interaction of SNX482 with domains III and IV inhibits activation gating of $\alpha 1E$ (CaV2.3) calcium channels. *Biophys.J.* 81 79 PMID:

Matthews et al (2007) The CaV2.3 calcium channel antagonist SNX-482 reduces dorsal horn neuronal responses in a rat model of chronic neuropathic pain. *Eur.J.Neurosci.* 25 3561 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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