

ProTx III

Chemical Properties

CAS No. :

Formula: C162H246N52O43S6

Molecular Weight: 3802.41

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 Nav1.7 blocker (IC50 = 2.5 nM). Also inhibits Nav1.1, Nav1.2, Nav1.3 and Nav1.6 in the nanomolar range. Exhibits no effects on Cav channels or nAChR at 5 µM. Demonstrates analgesic activity in vivo; antagonizes effects of scorpion-venom toxin OD1 at Nav1.7.
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Solubility Information

Solubility	H2O: 1 mg/mL (0.26 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	0.263 mL	1.315 mL	2.6299 mL
5 mM	0.0526 mL	0.263 mL	0.526 mL
10 mM	0.0263 mL	0.1315 mL	0.263 mL
50 mM	0.0053 mL	0.0263 mL	0.0526 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

Cardoso et al (2015) Identification and characterization of ProTx-III [μ -TRTX-Tp1a], a new voltage-gated sodium channel inhibitor from venom of the tarantula thrixopelma pruriens. Mol.Pharmacol. 88 291 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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