

GrTx1

Chemical Properties

CAS No. :

Formula: C159H243N45O41S8

Molecular Weight: 3697.43

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	GrTx1, a peptide toxin derived from Grammostola rosea spider venom, selectively inhibits sodium channels Nav1.1, Nav1.2, Nav1.3, Nav1.4, Nav1.6, and Nav1.7, with IC50 values of 0.63 μ M, 0.23 μ M, 0.77 μ M, 1.29 μ M, 0.63 μ M, and 0.37 μ M, respectively [2]. This compound has applications in neurological disease research [1].
Targets(IC50)	Sodium Channel
In vitro	GrTx1 (0-100 μ M, 3 minutes) effectively inhibits approximately 85% of Na ⁺ currents in neuroblastoma F-11 cells, without affecting common K ⁺ channels such as Kv1.1 and 1.4, and demonstrates an IC50 value of 2.8 μ M [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2705 mL	1.3523 mL	2.7046 mL
5 mM	0.0541 mL	0.2705 mL	0.5409 mL
10 mM	0.027 mL	0.1352 mL	0.2705 mL
50 mM	0.0054 mL	0.027 mL	0.0541 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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