

Ssm spooky toxin

Chemical Properties

CAS No. :

Formula: C270H413N69O79S4

Molecular Weight: 6017.84

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	Ssm Spooky Toxin, derived from Scolopendra mutilans, exhibits potent lethality affecting both hematological and respiratory systems primarily through the inhibition of KCNQ (voltage-gated potassium channel family 7) channels. It demonstrates IC50 values of 2.8 μ M for Kv7.4, 5.26 μ M for Kv1.3, and 0.1-0.3 M for the Shal channel, respectively. Additionally, this toxin impedes cytokine production by selectively targeting the KV1.3 channel in T cells and is crucial for the centipede's circulatory system functions [1] [2] [3].
Targets(IC50)	Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1662 mL	0.8309 mL	1.6617 mL
5 mM	0.0332 mL	0.1662 mL	0.3323 mL
10 mM	0.0166 mL	0.0831 mL	0.1662 mL
50 mM	0.0033 mL	0.0166 mL	0.0332 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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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481