

ShK toxin

Chemical Properties

CAS No. :	172450-46-3
Formula:	C169H274N54O48S7
Molecular Weight:	4054.8
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	ShK toxin, isolated from the Caribbean sea anemone (<i>Stichodactyla helianthus</i>), is an inhibitor of the voltage-dependent potassium channel (Kv1.3 channel). It competes with dendrotoxin I and α -dendrotoxin in binding to rat brain synaptosomal membranes and promotes acetylcholine release. Additionally, ShK toxin reduces K ⁺ currents in cultured rat dorsal root ganglion neurons and inhibits T lymphocyte proliferation [1] [2].
Targets(IC50)	Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2466 mL	1.2331 mL	2.4662 mL
5 mM	0.0493 mL	0.2466 mL	0.4932 mL
10 mM	0.0247 mL	0.1233 mL	0.2466 mL
50 mM	0.0049 mL	0.0247 mL	0.0493 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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