

Margatoxin

Chemical Properties

CAS No. :	145808-47-5
Formula:	C178H286N52O50S7
Molecular Weight:	4178.96
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	Potent KV1.3 channel blocker (IC50 = 36 pM). Displays no effect at calcium-activated channels. Reduces VEGF-induced transmembrane calcium influxes and nitric oxide production in human endothelial cells.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	H2O: 0.5 mg/mL (0.12 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2393 mL	1.1965 mL	2.3929 mL
5 mM	0.0479 mL	0.2393 mL	0.4786 mL
10 mM	0.0239 mL	0.1196 mL	0.2393 mL
50 mM	0.0048 mL	0.0239 mL	0.0479 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

Garcia-Calvo et al (1993) Purification, characterization, and biosynthesis of Margatoxin, a component of Centruroides margaritatus venom that selectively inhibits voltage-dependent potassium channels. J.Biol.Chem. 268 18866 PMID:

Erdogan et al (2005) Margatoxin inhibits VEGF-induced hyperpolarization, proliferation and nitric oxide production of human endothelial cells. J.Vasc.Res. 42 368 PMID:

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