Data Sheet (Cat.No.TP2089)

TargetMol

Agitoxin-2

Chemical Properties

CAS No. : 168147-41-9

Formula: C169H278N54O48S8

Molecular Weight: 4090.87

Storage: Keep away from moisture
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 Shaker K+ channel blocker (Ki = 0.64 nM). Also inhibits Kv1.3, Kv1.6 and Kv1.1 K+ channels (Ki values are 4, 37 and 44 pM respectively).
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	H2O: 1 mg/mL (0.24 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2444 mL	1.2222 mL	2.4445 mL
5 mM	0.0489 mL	0.2444 mL	0.4889 mL
10 mM	0.0244 mL	0.1222 mL	0.2444 mL
50 mM	0.0049 mL	0.0244 mL	0.0489 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 et al (1994) Purification and characterization of three inhibitors of voltage-dependent K+ channels from Leiurus quinquestriatus var. hebraeus venom. Biochemistry 33 6834 PMID:
Anangi et al (2012) Recombinant expression of margatoxin and agitoxin-2 in Pichia pastoris: an efficient method for production of KV1.3 channel blockers. PLoS ONE 7 e52965 PMID:
Gross et al (1996) Agitoxin footprinting the shaker potassium channel pore. Neuron 16 399 PMID:

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