Data Sheet (Cat.No.TP1967)

TargetMol

Phrixotoxin 3

Chemical Properties

CAS No. : 880886-00-0

Formula: C176H269N51O48S6

Molecular Weight: 4059.74

DCLGFLWKCNSNDKCCRPNLVCSRKDKWCKYQI
(Disulfide bridge:Cys_2-Cys_{17};Cys_9-Cys_{23};Cys_{16}-Cys_{30})

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 blocker of voltage-gated sodium channels (IC50 values are 0.6, 42, and 72 nM for NaV1.2, NaV1.3 and NaV1.5 respectively). Blocks inward sodium currents in a voltage-dependent manner.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	H2O: 1 mg/mL (0.25 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2463 mL	1.2316 mL	2.4632 mL
5 mM	0.0493 mL	0.2463 mL	0.4926 mL
10 mM	0.0246 mL	0.1232 mL	0.2463 mL
50 mM	0.0049 mL	0.0246 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.

Reference

Bosmans et al (2006) Four novel tarantula toxins as selective modulators of voltage-gated sodium channel subtypes. Mol.Pharmacol. 69 419 PMID:
Ono et al (2011) Characterization of voltage-dependent calcium channel blocking peptides from the venom of the tarantula Grammostola rosea. Toxicon. 58 265 PMID:

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