Data Sheet (Cat.No.TP2070)

TargetMol

BDS I

Chemical Properties

CAS No. :

Formula: C210H297N57O56S6

Molecular Weight: 4708.37

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 and reversible Kv3.4 potassium channel blocker (IC50 = 47 nM); also attenuates inactivation of sodium currents by acting on Nav1.7 and Nav1.3 channels. Enhances TTX-sensitive sodium currents in rat small dorsal root ganglion neurons. Neuroprotective.

Solubility Information

Solubility	H2O: 1 mg/mL (0.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2124 mL	1.0619 mL	2.1239 mL
5 mM	0.0425 mL	0.2124 mL	0.4248 mL
10 mM	0.0212 mL	0.1062 mL	0.2124 mL
50 mM	0.0042 mL	0.0212 mL	0.0425 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

Diochot et al (1998) Sea anemone peptides with a specific blocking activity against the fast inactivating potassium channel Kv3.4. J.Biol.Chem. 273 6744 PMID:

Liu et al (2012) Modulation of neuronal sodium channels by the sea anemone peptide BDS-I. J.Neurophysiol. 107 3155 PMID:

Pannaccione et al (2007) Up-regulation and increased activity of KV3.4 channels and their accessory subunit MinK-related peptide 2 induced by amyloid peptide are involved in apoptotic neuronal death. Mol.Pharmacol. 72 665 PMID:

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