

BDS-I

Chemical Properties

CAS No. :	207621-38-3
Formula:	C ₂₁₀ H ₂₉₇ N ₅₇ O ₅₆ S ₆
Molecular Weight:	4708.34
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	BDS-I, a marine toxin derived from <i>Anemonia sulcata</i> , functions as a selective inhibitor of the potassium channel, specifically targeting Kv3.4. It impedes the A β 1-42-induced augmentation of Kv3.4 activity, caspase-3 activation, and distortion of nuclear morphology in NGF-differentiated PC-12 cells. Moreover, BDS-I effectively counteracts the cell death induced by the A β peptide [1].
Targets(IC50)	Potassium Channel

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481