Data Sheet (Cat.No.TP2077)

TargetMol

α-Bungarotoxin

Chemical Properties

CAS No. : 11032-79-4

Formula: C338H529N97O105S11

Molecular Weight: 7984.14

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	Neurotoxin that blocks neuromuscular transmission via irreversible inhibition of nicotinic ACh receptors (nAChRs). Prevents opening of nicotinic receptor-associated ion channels and is selective for α7 receptors over α3β4 receptors (IC50 values are 1.6 nM and > 3 μM respectively).
Targets(IC50)	AChR

Solubility Information

Solubility	H2O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1252 mL	0.6262 mL	1.2525 mL
5 mM	0.025 mL	0.1252 mL	0.2505 mL
10 mM	0.0125 mL	0.0626 mL	0.1252 mL
50 mM	0.0025 mL	0.0125 mL	0.025 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

Zhang et al (1994) Neuronal acetylcholine receptors that bind α-bungarotoxin with high affinity function as ligand-gated ion channels. Neuron 12 167 PMID:

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