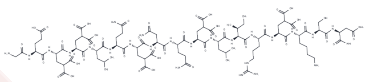
Data Sheet (Cat.No.TP2060)

TargetMol

Conantokin G

Chemical Properties



CAS No. : 93438-65-4

Formula: C88H138N26O44

Molecular Weight: 2264.21

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	GluN2B (formally NR2B) selective, competitive antagonist of the NMDA receptor. Blocks NMDA-evoked current in mouse cortical neurons (IC50 = 480 nM); also inhibits NMDA-evoked responses in oocytes expressing GluN2B (formally NR2B), but not GluN2A (formally NR2A), subunits (IC50 ~300 nM). Exhibits neuroprotective properties in vivo and in vitro.
Targets(IC50)	iGluR

Solubility Information

Solubility	H2O: 1 mg/mL (0.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4417 mL	2.2083 mL	4.4166 mL
5 mM	0.0883 mL	0.4417 mL	0.8833 mL
10 mM	0.0442 mL	0.2208 mL	0.4417 mL
50 mM	0.0088 mL	0.0442 mL	0.0883 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

Donevan and McCabe (2000) Conantokin G is an NR2B-selective competitive antagonist of N-methyl-D-aspartate receptors. Mol.Pharmacol. 58 614 PMID:
Bush et al (2000) Selective antagonism of nigral neuropeptide responses to metha. by conantokin G, a naturally occurring conopeptide. Eur.J.Pharmacol. 387 55 PMID:
Williams et al (2000) Neuroprotective efficacy and therapeutic window of the high-affinity N-methyl-D-aspartate antagonist conantokin-G: in vitro (primary cerebellar neurons) and in vivo (rat model of transient focal brain ischemia) studies. J.Pharmacol.Exp.Ther. 294 378 PMID:

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