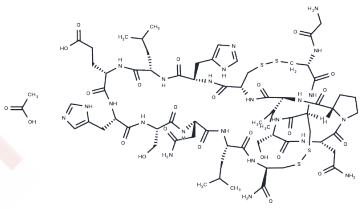
Data Sheet (Cat.No.TP2063L)

TargetMol

α-Conotoxin MII acetate

Chemical Properties



CAS No. :

Formula: C69H107N23O24S4

Molecular Weight: 1770.99

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	α-Conotoxin MII acetate is a 16-amino acid peptide from the venom of the marine snail Conus magus. α-Conotoxin MII acetate potently blocks nicotinic acetylcholine receptors composed of α3β2 subunits, with an IC50 of 0.5 nM. α-Conotoxin MII acetate potently blocks β3-containing neuronal nicotinic acetylcholine receptors.
Targets(IC50)	AChR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5647 mL	2.8233 mL	5.6466 mL
5 mM	0.1129 mL	0.5647 mL	1.1293 mL
10 mM	0.0565 mL	0.2823 mL	0.5647 mL
50 mM	0.0113 mL	0.0565 mL	0.1129 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

G E Cartier, et al. A New Alpha-Conotoxin Which Targets alpha3beta2 Nicotinic Acetylcholine Receptors. J Biol Chem. 1996 Mar 29;271(13):7522-8.

S C Harvey, et al. Determinants of Specificity for Alpha-Conotoxin MII on alpha3beta2 Neuronal Nicotinic Receptors. Mol Pharmacol. 1997 Feb;51(2):336-42.

J M McIntosh, et al. Conus Peptides: Novel Probes for Nicotinic Acetylcholine Receptor Structure and Function. Eur J Pharmacol. 2000 Mar 30;393(1-3):205-8.

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