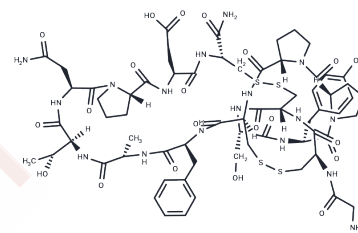


α -Conotoxin AuIB

Chemical Properties

CAS No. :	216299-21-7
Formula:	C65H89N17O21S4
Molecular Weight:	1572.76
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	Selective antagonist of $\alpha 3\beta 4$ nicotinic acetylcholine receptors. Displays > 100-fold selectivity over other receptor subunit combinations including $\alpha 2\beta 2$, $\alpha 2\beta 4$, $\alpha 3\beta 2$, $\alpha 4\beta 2$, $\alpha 4\beta 4$ and $\alpha 1\beta 1\gamma \delta$.
Targets(IC50)	AChR

Solubility Information

Solubility	H2O: 5 mg/mL (3.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6358 mL	3.1791 mL	6.3582 mL
5 mM	0.1272 mL	0.6358 mL	1.2716 mL
10 mM	0.0636 mL	0.3179 mL	0.6358 mL
50 mM	0.0127 mL	0.0636 mL	0.1272 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

Luo et al (1998) α -Conotoxin AuIB selectively blocks $\alpha 3\beta 4$ nicotinic acetylcholine receptors and nicotine-evoked NE release. J.Neurosci. 18 8571 PMID:

Nai et al (2003) Relating neuronal nicotinic acetylcholine receptor subtypes defined by subunit composition and channel function. Mol.Pharmacol. 63 311 PMID:

Park et al (2006) An $\alpha 3\beta 4$ subunit combination acts as a major functional nicotinic acetylcholine receptor in male rat pelvic ganglion neurons. Pflugers Arch. 452 775 PMID:

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