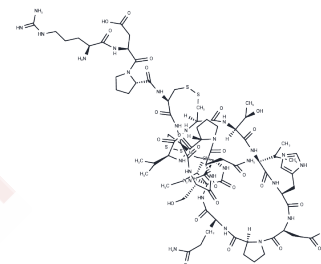


$\alpha$ -Conotoxin PIA

## Chemical Properties

CAS No. :	669050-68-4
Formula:	C79H125N27O25S4
Molecular Weight:	1981.3
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 $\alpha 6$ -containing nicotinic receptors that discriminates between the closely related $\alpha 6$ and $\alpha 3$ subunits (IC <sub>50</sub> values are 0.95 and 74.2 nM for rat $\alpha 6/\alpha 3\beta 2\beta 3$ and $\alpha 3\beta 2$ receptors respectively).
Targets(IC <sub>50</sub> )	AChR

## Solubility Information

Solubility	H <sub>2</sub> O: 2 mg/mL (1.01 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5047 mL	2.5236 mL	5.0472 mL
5 mM	0.1009 mL	0.5047 mL	1.0094 mL
10 mM	0.0505 mL	0.2524 mL	0.5047 mL
50 mM	0.0101 mL	0.0505 mL	0.1009 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

Dowell et al (2003)  $\alpha$ -Conotoxin PIA is selective for  $\alpha 6$  subunit-containing nicotinic acetylcholine receptors. J. Neurosci. 23 8445 PMID:

Azam and McIntosh (2005) Effect of novel  $\alpha$ -Conotoxins on nicotine-stimulated [3H]DA release from rat striatal synaptosomes. J.Pharmacol.Exp.Ther. 312 231 PMID:

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