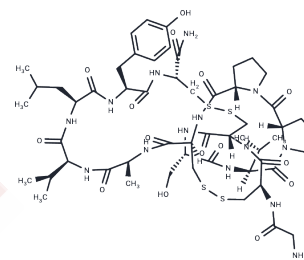


$\alpha$ -Conotoxin BuIA

## Chemical Properties

CAS No. :	846539-62-6
Formula:	C54H82N14O16S4
Molecular Weight:	1311.57
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	$\alpha$ -Conotoxin BuIA is a paralytic peptide neurotoxin that acts as a competitive antagonist of nicotinic acetylcholine receptors (nAChR), with inhibitory concentration 50 (IC50) values of 0.258 nM for $\alpha 6/\alpha 3\beta 2$ , 1.54 nM for $\alpha 6/\alpha 3\beta 4$ , and 5.72 nM for $\alpha 3\beta 2$ . It serves to differentiate between nAChRs containing the $\beta 2$ - and $\beta 4$ -subunits and selectively inhibits $\alpha \beta 2$ nAChRs, exhibiting a potency hierarchy of $\alpha 6 > \alpha 3 > \alpha 2 > \alpha 4$ [1].
Targets(IC50)	AChR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7624 mL	3.8122 mL	7.6245 mL
5 mM	0.1525 mL	0.7624 mL	1.5249 mL
10 mM	0.0762 mL	0.3812 mL	0.7624 mL
50 mM	0.0152 mL	0.0762 mL	0.1525 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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