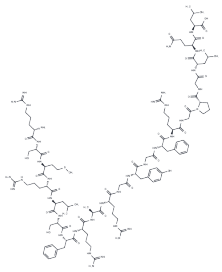
Data Sheet (Cat.No.TP2058)

TargetMol

Catestatin

Chemical Properties



CAS No. : 142211-96-9

Formula: C107H173N37O26S

Molecular Weight: 2425.84

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	Non-competitive nicotinic cholinergic antagonist; selectively inhibits nicotinic-stimulated catecholamine secretion from chromaffin cells and noradrenergic neurons (IC50 ~ 200 nM). Blocks nicotinic-induced cationic signaling (IC50 ~ 200 - 250 nM) and inhibits nicotinic-agonist induced desensitization of catecholamine release. Also stimulates mast cell release of histamine via a separate mechanism.
Targets(IC50)	AChR

Solubility Information

Solubility	H2O: 1 mg/mL (0.41 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4122 mL	2.0611 mL	4.1223 mL
5 mM	0.0824 mL	0.4122 mL	0.8245 mL
10 mM	0.0412 mL	0.2061 mL	0.4122 mL
50 mM	0.0082 mL	0.0412 mL	0.0824 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

Mahata et al (1997) Novel autocrine feedback control of catecholamine release. J.Clin.Invest. 100 1623 PMID:
Mahata et al (2000) Primary structure and function of the catecholamine release inhibitory peptide catestatin (Chromogranin A344-364): identification of amino acid residues crucial for activity. Mol.Endocrinol. 14 1525 PMID:

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