

cAC 253

## Chemical Properties

CAS No. :

Formula: C126H202N42O40S2

Molecular Weight: 3009.36

Keep away from moisture

Storage: 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	Amylin (AMY3) antagonist (IC <sub>50</sub> = 0.3 μM). Protects neuronal cells from Aβ(1-42)-induced cytotoxicity in vitro. Brain penetrant. Improves spatial memory and reduces Aβ plaque number and total area in a mouse Alzheimer's disease model.
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## Solubility Information

Solubility	H <sub>2</sub> O: 1 mg/mL (0.33 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	0.3323 mL	1.6615 mL	3.323 mL
5 mM	0.0665 mL	0.3323 mL	0.6646 mL
10 mM	0.0332 mL	0.1661 mL	0.3323 mL
50 mM	0.0066 mL	0.0332 mL	0.0665 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

Soudy et al (2016) Cyclic AC253, a novel amylin receptor antagonist, improves cognitive deficits in a mouse model of Alzheimer's disease. *Alzheimers Dement.* (N Y) 3 44 PMID: 29067318

Mietlicki-Baase (2018) Amylin in Alzheimer's disease: Pathological peptide or potential treatment? *Neuropharmacology* 136 287 PMID: 29233636

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