

AC 253

## Chemical Properties

CAS No. : 151804-79-4

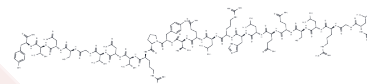
Formula: C122H196N40O39

Molecular Weight: 2847.11

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) receptor antagonist. Inhibits adrenomedullin-stimulated cAMP production in vitro. Protects against oligomeric A $\beta$ -induced increase in intracellular Ca $^{2+}$ , activation of PKA, MAPK, Akt and cFOS and cell death in neuronal cell culture. Blocks electrophysiological effects of A $\beta$ in vitro. Cyclic AC 253 also available. |
| Targets(IC50) | Beta Amyloid  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | H $_{2}O$ : 2 mg/mL (0.7 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.3512 mL | 1.7562 mL | 3.5123 mL |
| 5 mM  | 0.0702 mL | 0.3512 mL | 0.7025 mL |
| 10 mM | 0.0351 mL | 0.1756 mL | 0.3512 mL |
| 50 mM | 0.007 mL  | 0.0351 mL | 0.0702 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

Coppock et al (1999) Rat-2 fibroblasts express specific adrenomedullin receptors, but not calcitonin-gene-related-peptide receptors, which mediate increased intracellular cAMP and inhibit mitogen-activated protein kinase activity. Biochem.J. 338 15 PMID:

Jhamandas et al (2011) Actions of  $\beta$ -amyloid protein on human neurons are expressed through the amylin receptor. Am.J.Pathol. 178 140 PMID:

Fu et al (2012) Amyloid  $\beta$  (A $\beta$ ) peptide directly activates amylin-3 receptor subtype by triggering multiple intracellular signaling pathways. J,Biol.Chem. 287 18820 PMID:

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