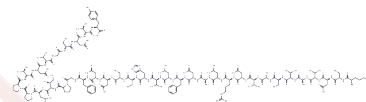


Pramlintide (acetate hydrate)

Chemical Properties

CAS No. :	196078-30-5
Formula:	C170H267N51O53S2
Molecular Weight:	3937.43
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	Pramlintide is a non-amyloidogenic analog of the antidiabetic peptide hormone amylin that contains proline residues substituted at positions 25, 28, and 29. It stimulates cAMP production in HEK293 cells expressing human amylin receptor 1a (AMY1a), AMY2a, and AMY3a (EC50s = 0.35, 22.9, and 0.89 nM, respectively). Pramlintide inhibits human islet amyloid polypeptide fibrilization in a concentration-dependent manner.
Targets(IC50)	Others
In vivo	In vivo, pramlintide (200 pg/kg) reduces brain levels of amyloid- β (1-40) and increases spontaneous alternation in the Y-maze in the Tg2576 transgenic mouse model of Alzheimer's disease.

Solubility Information

Solubility	DMSO: 10 mg/mL (2.54 mM), Sonication is recommended. PBS (pH 7.2): 5 mg/mL (1.27 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	0.254 mL	1.2699 mL	2.5397 mL
5 mM	0.0508 mL	0.254 mL	0.5079 mL
10 mM	0.0254 mL	0.127 mL	0.254 mL
50 mM	0.0051 mL	0.0254 mL	0.0508 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

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