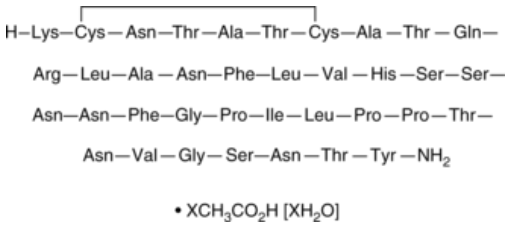
Product Data Sheet

Product Name: Pramlintide (acetate hydrate)
Cat. No.: GC44674

Chemical Properties

Cas. No.	196078-30-5		
Formula	C171H267N51O53S2•XC2H4O2 [XH 2O]	M.Wt	3949.4
Solubility	DMSO: 10 mg/ml,PBS (pH 7.2): 5 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

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. 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.

Caution: Product has not been fully validated for medical applications. For research use only.
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