

Product Data Sheet

Product Name: Pramlintide (acetate hydrate)

Cat. No.: GC44674

Chemical Properties

Cas. No. 196078-30-5

Formula C₁₇₁H₂₆₇N₅₁O₅₃S₂•XC₂H₄O₂ [XH M.Wt 3949.4
2O]

Solubility DMSO: 10 mg/ml, PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General 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 Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure

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      |
H-Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-
      |
Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-
      |
Asn-Asn-Phe-Gly-Pro-Ile-Leu-Pro-Pro-Thr-
      |
Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH2
      |
      • XCH3CO2H [XH2O]
  
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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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