

Product Data Sheet

Product Name: Caerulein (acetate)

Cat. No.: GC43113

Chemical Properties

Cas. No. 2760881-68-1

SMILES O=C([C@H](CC1=CNC2=C1C=CC=C2)NC(CNC([C@@]([H])(NC([C@H](CC3=CC=C(C=C3)OS(O)(=O)=O)NC([C@@H](NC([C@@H](NC([C@@H]4CCC(N4)=O)=O)CCC(N)=O)=O)CC(O)=O)=O)[C@@H](C)O)=O)N[C@H](C(N[C@H](C(N[C@@H](CC5=CC=CC=C5)C(N)=O)=O)CC(O)=O)=O)CCSC.CC(O)=O

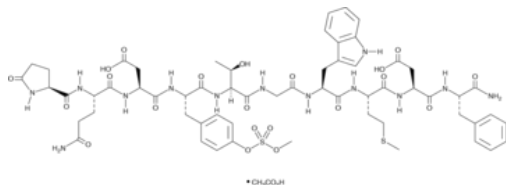
Formula C₅₈H₇₃N₁₃O₂₁S₂•C₂H₄O₂ M.Wt 1412.5

Solubility Water: 1 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 tips 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



Background

Caerulein is an oligopeptide originally isolated from skin extracts of *H. caerulea*/L. *caerulea*. In vivo, caerulein increases the flow rate of gastric juices as well as pepsin and acid outputs in the gut of dogs, rats, and frogs. Caerulein (25-500 ng/kg) stimulates insulin secretion in a dose-dependent manner in anesthetized dogs. It is also used to induce pancreatitis in various animal models, as it increases autophagic vacuole formation and lysosomal enzyme activity leading to acinar cell necrosis when administered at a dose of 5 or 10 µg/kg per hour.

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

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