

Product Data Sheet

Product Name: Glucagon (19-29), human

Cat. No.: GP10122

Chemical Properties

Cas. No. 64790-15-4

Chemical Name Glucagon (19-29), human

SMILES CC(C)CC(C(=O)NC(CCSC)C(=O)NC(CC(=O)N)C(=O)NC(C(C)O)C(=O)O)NC(=O)C(CC1=CNC2=CC=CC=C21)NC(=O)C(CCC(=O)N)NC(=O)C(C(C)C)NC(=O)C(CC3=CC=CC=C3)NC(=O)C(CC(=O)O)NC(=O)C(CCC(=O)N)NC(=O)C(C)N

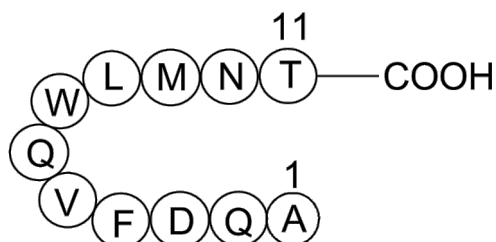
Formula $C_{61}H_{89}N_{15}O_{18}S$ M.Wt 1352.51

Solubility $\geq 135.2\text{mg/mL}$ in DMSO 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



Protocol

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

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Animal experiment: Rats[1]To test the effect of miniglucagon (Glucagon (19-29)) on stimulated insulin secretion, 8.3 mM glucose is perfused during the experiments, including a 45-min equilibration period, followed by miniglucagon (1, 10, 100, and 1,000 pM) perfused with or without 1 nM tGLP-1. To study the glucagon and miniglucagon secretion, the glucose concentration is switched from 11 to 3 mM after a 45-min stabilization period, and the peptides secreted are measured by radioimmunoassay[1].

References:

- [1]. Dalle S, et al. Miniglucagon (glucagon 19-29), a potent and efficient inhibitor of secretagogue-induced insulin release through a Ca^{2+} pathway. J Biol Chem. 1999 Apr 16;274(16):10869-76.
- [2]. Dalle S, et al. Miniglucagon (glucagon 19-29): a novel regulator of the pancreatic islet physiology. Diabetes. 2002 Feb;51(2):406-12.
- [3]. Pavoine C, et al. Miniglucagon [glucagon-(19-29)] is a component of the positive inotropic effect of glucagon. Am J Physiol. 1991 May;260(5 Pt 1):C993-9.

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