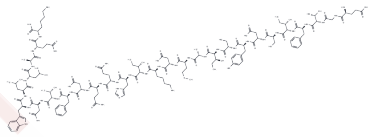
Data Sheet (Cat.No.TP2586)

TargetMol

human GIP(3-30), amide

Chemical Properties



CAS No. : 1884226-05-4

Formula: C150H226N38O44S

Molecular Weight: 3297.69

Storage: Keep away from moisture
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	human GIP(3-30), amide is a high-affinity human GIP receptor antagonist and a natural metabolite of DPP-4 cleavage of GIP(1-30)NH_2. Human GIP(3-30), amide inhibits insulin secretion in vitro and suppresses cAMP and β-arrestin 1/2 recruitment induced by GIP(1-42).
In vitro	human GIP(3-30), amide at concentrations of 0.01-10 μM for 20 minutes competitively binds to GIPR, blocking GIP-mediated cAMP accumulation (Ki=16.8 nM), β-arrestin-1/2 recruitment (Ki = 10.6 nM/10.2 nM), and receptor internalization [2]. Human GIP(3-30), amide at concentrations of 0.01-10 μM for 30 minutes, inhibits GIP-mediated insulin secretion and signal transduction in adipocytes [2].

Solubility Information

Solubility	DMSO: ≥ 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3032 mL	1.5162 mL	3.0324 mL
5 mM	0.0606 mL	0.3032 mL	0.6065 mL
10 mM	0.0303 mL	0.1516 mL	0.3032 mL
50 mM	0.0061 mL	0.0303 mL	0.0606 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.

Reference

Sparre-Ulrich AH, et al. GIP(3-30)NH2 is a potent competitive antagonist of the GIP receptor and effectively inhibits GIP-mediated insulin, glucagon, and somatostatin release. Biochem Pharmacol. 2017;131:78-88.
Gabe MBN, et al., Human GIP(3-30)NH2 inhibits G protein-dependent as well as G protein-independent signaling and is selective for the GIP receptor with high-affinity binding to primate but not rodent GIP receptors. Biochem Pharmacol. 2018 Apr;150:97-107.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481