

GIP, human

## Chemical Properties

CAS No. : 100040-31-1

Formula: C226H338N60O66S

Molecular Weight: 4983.6

Keep away from moisture

Storage: 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	Potent insulinotropic hormone synthesized by duodenal K-cells. High affinity GIP receptor agonist (EC50 = 0.81 nM) that inhibits gastric acid secretion and stimulates pancreatic insulin release in response to glucose. Also affects lipid metabolism and displays mitogenic and antiapoptotic effects in pancreatic $\beta$ -cells.
Targets(IC50)	IGF-1R

## Solubility Information

Solubility	H2O: 1 mg/mL (0.2 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2007 mL	1.0033 mL	2.0066 mL
5 mM	0.0401 mL	0.2007 mL	0.4013 mL
10 mM	0.0201 mL	0.1003 mL	0.2007 mL
50 mM	0.004 mL	0.0201 mL	0.0401 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

- Wheeler et al (1995) Functional expression of the rat pancreatic islet glucose-dependent Insotropic polypeptide receptor: ligand binding and intracellular signaling properties. *Endocrinol.* 136 4629
- Trumper et al (2001) Glucose-dependent Insotropic polypeptide is a growth factor for  $\beta$  (INS-1) cells by pleiotropic signaling. *Mol.Endocrinol.* 15 1159
- Meier et al (2002) Gastric inhibitory polypeptide: the neglected incretin revisited. *Regul.Peptides* 107 1

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