



LKT Laboratories, Inc.

Gastric Inhibitory Peptide, human

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Product Information

Product ID G0175

CAS No. 100040-31-1

Chemical Name

Synonym GIP

Formula $C_{226}H_{338}N_{60}O_{66}S$

Formula Wt. 4983.64

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Gastric inhibitory peptide (GIP) is an endogenous peptide hormone analog of somatostatin that is involved in insulin signaling. GIP is secreted in response to food intake and enhances insulin secretion from pancreatic β -cells. GIP also increases plasma membrane translocation of GLUT4 in a cAMP/PKA/PI3K-dependent manner. GIP binds and activates GIP receptors.

H-Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-His-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Ile-Thr-Gln-OH

Bulk quantities available upon request

Product ID	Size
G0175	0.5 mg
G0175	1 mg
G0175	2.5 mg

References Mohammad S, Ramos LS, Buck J, et al. Gastric inhibitory peptide controls adipose insulin sensitivity via activation of cAMP-response element-binding protein and p110 β isoform of phosphatidylinositol 3-kinase. *J Biol Chem.* 2011 Dec 16;286(50):43062-70. PMID: 22027830.

Adrian TE, Barnes AJ, Long RG, et al. The effect of somatostatin analogs on secretion of growth, pancreatic, and gastrointestinal hormones in man. *J Clin Endocrinol Metab.* 1981 Oct;53(4):675-81. PMID: 6116721.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.