

Product Data Sheet

Product Name: GIP, human TFA

Cat. No.: GC61741

Chemical Properties

Cas. No.

Formula $C_{228}H_{339}F_3N_{60}O_{68}S$ M.Wt 5097.62

Solubility H_2O : 10 mg/mL (1.96 mM; Need ultrasonic) Storage $-20^{\circ}C$, protect from light, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

YAEGTFISDYSIAMDKIHQQDFVNWLLAQKGKKNDWKHNITQ (TFA salt)

Background

GIP, human TFA, a peptide hormone consisting of 42 amino acids, is a stimulator of glucose-dependent insulin secretion and a weak inhibitor of gastric acid secretion. GIP, human TFA acts as an incretin hormone released from intestinal K cells in response to nutrient ingestion[1][2][3].

Gastric Inhibitory Polypeptide (GIP) exerts various peripheral effects on adipose tissue and lipid metabolism, thereby leading to increased lipid deposition in the postprandial state[1]. GIP, human plays a vital role in lipid metabolism and the development of obesity.

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

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[1]. Meier JJ, et al. Gastric inhibitory polypeptide: the neglected incretin revisited. Regul Pept. 2002 Jul 15;107(1-3):1-13. [2]. Miyachi A, et al. Quantitative analytical method for determining the levels of gastric inhibitory polypeptides GIP1-42 and GIP3-42 in human plasma using LC-MS/MS/MS. J Proteome Res. 2013;12(6):2690-2699. [3]. Gabe MBN, et al. Molecular interactions of full-length and truncated GIP peptides with the GIP receptor - A comprehensive review. Peptides. 2020;125:170224.

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