

Recombinant Human gastric inhibitory polypeptide, His-tagged

Cat. No. GIP-546H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GIP, 22-153aa, Human His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	22-153 a.a.
Description	GIP, also known as glucose-dependent insulintropic polypeptide, is an important insulin-releasing hormone of the enteroinsular axis that has a functional profile of possible therapeutic value for type 2 diabetes. This protein is an important incretin hormone released into the circulation from endocrine K-cells of the duodenum and jejunum after ingestion of food ¹ . It was evaluated for their ability to elevate cellular cAMP production and stimulate insulin secretion. It also promotes plasma triglyceride clearance in response to oral fat loading. In liver, GIP has been shown to enhance insulin-dependent inhibition of glycogenolysis. Recombinant human GIP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol 0.1M NaCl, 2mM DTT
Molecular Mass	17.3 kDa(155aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEKKEGHF SALPSLPVGS HAKVSSPQPR

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GPRYAEGTFI SDYSIAMDKI HQQDFVNWLL AQKGKKNDWK HNITQREARA
LELAGQANRK EEEAVEPQSS PAKNPSDEDL LRDLLIQELL ACLLDQTNLC RLRSR

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [GIP gastric inhibitory polypeptide \[Homo sapiens \]](#)

Official Symbol GIP

Synonyms GIP; gastric inhibitory polypeptide; glucose dependent insulintropic polypeptide; glucose-dependent insulintropic polypeptide;

Gene ID [2695](#)

mRNA Refseq [NM_004123](#)

Protein Refseq [NP_004114](#)

MIM [137240](#)

UniProt ID [P09681](#)

Chromosome Location 17q21.3-q22

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Pathway

Class B/2 (Secretin family receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Glucagon-type ligand receptors, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem;

Function

hormone activity;

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