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 insulinotropic 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 food1. 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 insulinotropic polypeptide; glucose-dependent insulinotropic 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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