

GIP Protein, Human (HEK293, hFc)

Cat. No.:	HY-P74125A
Synonyms:	Gastric inhibitory polypeptide; GIP; Incretin hormone
Species:	Human
Source:	HEK293
Accession:	NP_004114.1 (E22-Q93)
Gene ID:	2695
Molecular Weight:	Approximately 38.77 kDa

PROPERTIES

AA Sequence	E K K E G H F S A L P S L P V G S H A K V S S P Q P R G P R Y A E G T F I S D Y S I A M D K I H Q Q D F V N W L L A Q K G K K N D W K H N I T Q
Biological Activity	Immobilized Human GIP at 0.5 µg/mL (100 µL/well) can bind Anti-GIP Antibody, The ED ₅₀ for this effect is 82.46 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The GIP Protein, classified within the glucagon superfamily, serves as an incretin hormone crucial for glucose homeostasis. Its significance lies in being a potent stimulator of insulin secretion from pancreatic beta-cells in response to food ingestion and nutrient absorption. This stimulation occurs through the activation of its G protein-coupled receptor, triggering adenylyl cyclase and other signal transduction pathways. While GIP is a relatively poor inhibitor of gastric acid secretion, its primary role in insulin regulation positions it as a key player in metabolic processes. The gene exhibits biased expression, with noteworthy levels detected in the duodenum (RPKM 96.0) and small intestine (RPKM 33.9), emphasizing its involvement in digestive and metabolic functions within the gastrointestinal tract.
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Caution: Product has not been fully validated for medical applications. For research use only.

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