Gastric Inhibitory Poly (GIP) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Gastric Inhibitory Polypeptide (GIP), ELISA Kit
Full Product Name	Chicken Gastric Inhibitory Polypeptide ELISA Kit
Product Gene Name	GIP elisa kit
Species Reactivity	Chicken
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	17,108 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (47035918..47045955, complement). Location: 17q21.3-q22
OMIM	137240
3D Structure	ModBase 3D Structure for P09681
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for GIP elisa kit	Neurobiology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for GIP elisa kit	MBS744147 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Gastric Inhibitory Polypeptide (GIP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GIP. The ELISA analytical biochemical technique of the MBS744147 kit is based on GIP antibody-GIP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GIP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GIP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GIP elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GIP. It may not necessarily be applicable to this product.

NCBI GI #	4758436
NCBI GeneID	2695
NCBI Accession #	NP_004114.1
UniProt Primary Accession #	P09681
UniProt Secondary Accession #	Q4VB42; Q6NTD3
UniProt Related Accession #	P09681
GenBank Nucleotide #	NM_004123.2
NCBI Official Full Name	gastric inhibitory polypeptide preproprotein

NCBI Official Synonym Full Names	gastric inhibitory polypeptide
NCBI Official Symbol	GIP
UniProt Protein Name	Gastric inhibitory polypeptide
UniProt Synonym Protein Names	Glucose-dependent insulinotropic polypeptide
Protein Family	Copia protein
UniProt Gene Name	GIP
UniProt Synonym Gene Names	GIP
UniProt Entry Name	GIP_HUMAN
NCBI Protein Information	gastric inhibitory polypeptide; glucose-dependent insulinotropic polypeptide
NCBI Summary for GIP	This gene encodes an incretin hormone and belongs to the glucagon superfamily. The encoded protein is important in maintaining glucose homeostasis as it is a potent stimulator of insulin secretion from pancreatic beta-cells following food ingestion and nutrient absorption. This gene stimulates insulin secretion via its G protein-coupled receptor activation of adenylyl cyclase and other signal transduction pathways. It is a relatively poor inhibitor of gastric acid secretion. [provided by RefSeq, Jul 2008]
UniProt Comments for GIP	GIP: Potent stimulator of insulin secretion and relatively poor inhibitor of gastric acid secretion. Belongs to the glucagon family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 17q21.3-q22 Cellular Component: extracellular space; cell soma; endoplasmic reticulum lumen; extracellular region Molecular Function: hormone activity Biological Process: response to drug; response to peptide hormone stimulus; adult locomotory behavior; positive regulation of insulin secretion; female pregnancy; response to lipid; response to amino acid stimulus; signal transduction; sensory perception of pain; endocrine pancreas development; response to organic cyclic substance; memory; response to starvation; response to selenium ion; cellular protein metabolic process; response to glucose stimulus; response to axon injury; regulation of insulin secretion
Research Articles on GIP	**1.** Data suggest that reduced insulinotropic effect of GIP or GLP-1 (as in type 2 diabetes) can be induced in healthy subjects; this indicates that reduced incretin stimulation of insulin secretion results from insulin resistance/glucose intolerance.
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