

## Recombinant Human GIP

**Cat. No.** GIP-29064TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full length Human GIP with a proprietary tag; Predicted MWt 42.9 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>       | 153 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>         | <p>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.</p> |
| <b>Molecular Weight</b>    | 42.900kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Biological activity</b> | useful for Antibody Production and Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>              | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>      | pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                 |
| <b>Sequences of amino acids</b> | MVATKTFALLLLSLFLAVGLGEKKEGHFSALPSLPVGSNAKVSSPQPRGPRYAEGTF<br>ISDYSIAMDKIHQQDFVNWLLAQKGKKNDWKHNITQREARALELASQANRKEEEAVE<br>PQSSPAKNPSDEDLRLDLIQELLACLLDQTNLCRLRSR                                                                          |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                           |
| <b>Gene Name</b>                | GIP gastric inhibitory polypeptide [ Homo sapiens ]                                                                                                                                                                                       |
| <b>Official Symbol</b>          | GIP                                                                                                                                                                                                                                       |
| <b>Synonyms</b>                 | GIP; gastric inhibitory polypeptide; glucose dependent insulinotropic polypeptide;                                                                                                                                                        |
| <b>Gene ID</b>                  | 2695                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>              | NM_004123                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>           | NP_004114                                                                                                                                                                                                                                 |
| <b>MIM</b>                      | 137240                                                                                                                                                                                                                                    |
| <b>Uniprot ID</b>               | P09681                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b>      | 17q21.3-q22                                                                                                                                                                                                                               |
| <b>Pathway</b>                  | 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; |

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Glucagon-type ligand receptors, organism-specific biosystem;

**Function**

hormone activity;

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