

Recombinant human GIP protein

Catalog Number: ATGP2061

PRODUCT INFORMATION

Expression system

E.coli

Domain

22-153aa

UniProt No.

P09681

NCBI Accession No.

AAH69100

Alternative Names

Gastric inhibitory polypeptide, Glucose-dependent insulintropic polypeptide, Gastric Inhibitory Peptide

PRODUCT SPECIFICATION

Molecular Weight

17.3 kDa (155aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol 0.1M NaCl, 2mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 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,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSEKKEGHF SALPSLPVGS HAKVSSPQPR GPRYAEGTFI SDYSIAMDKI HQQDFVNWLL
AQKGGKNDWK HNITQREARA LELAGQANRK EEEAVEPQSS PAKNPSDEDL LRDLIIQELL ACLLDQTNLC RLRSR

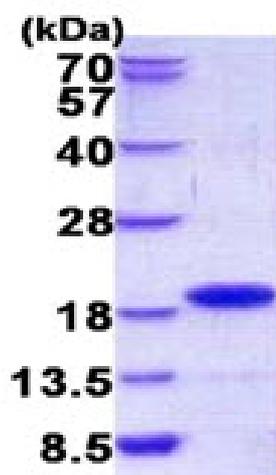
General References

O'Harte FP. et al. (1999) Diabetes. 48:758-765

Gault VA. et al. (2002) Biosci Rep. 22:523-528.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)