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 insulinotropic 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 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,

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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

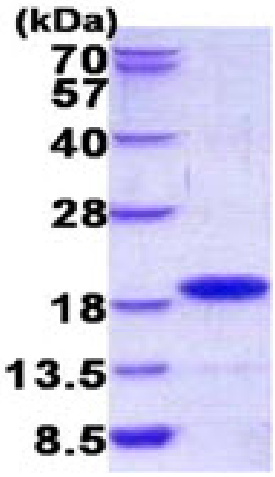
MGSSHHHHHH SSGLVPRGSH MGSEKKEGHF SALPSLPVGS HAKVSSPQPR GPRYAEGTFI SDYSIAMDKI HQQDFVNWLL AQKGKKNDWK HNITQREARA LELAGQANRK EEEAVEPQSS PAKNPSDEDL LRDLLIQELL ACLLDQTNLC RLRSR

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



15% SDS-PAGE (3ug)

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