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Datasheet for ABIN7274747

GIP Protein (AA 22-93) (Fc Tag)

3 Images

Overview

Quantity:	100 µg
Target:	GIP
Protein Characteristics:	AA 22-93
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GIP protein is labelled with Fc Tag.

Product Details

Purpose:	Human GIP Protein
Sequence:	Glu22-Gln93
Characteristics:	Recombinant Human GIP Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu22-Gln93.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human GIP, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-GIP Antibody, hFc Tag with the EC50 of 32.6ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	GIP
Alternative Name:	GIP (GIP Products)
Background:	The potential application of glucose-dependent insulintropic polypeptide (gastric inhibitory polypeptide, GIP) in the management of obesity and type 2 diabetes has been controversial. Initial interest in the therapeutic use of GIP was dampened by evidence that its insulintropic activity was reduced in type 2 diabetes and by reports that it increased glucagon secretion and adipose deposition in non-diabetic individuals.
Molecular Weight:	34.9 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	P09681
Pathways:	Positive Regulation of Peptide Hormone Secretion , Peptide Hormone Metabolism , Hormone Activity , Regulation of Lipid Metabolism by PPARalpha , Lipid Metabolism

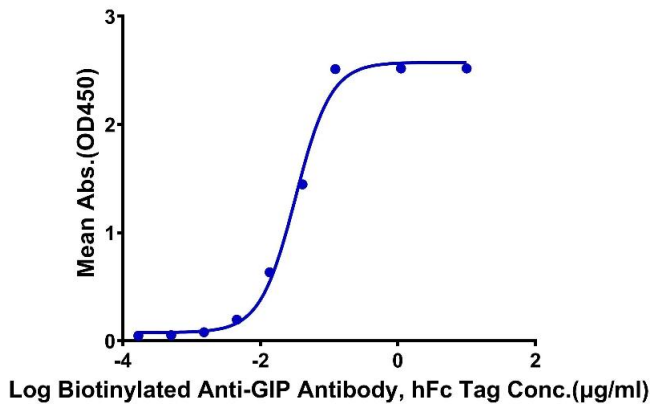
Application Details

Restrictions:	For Research Use only
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Handling

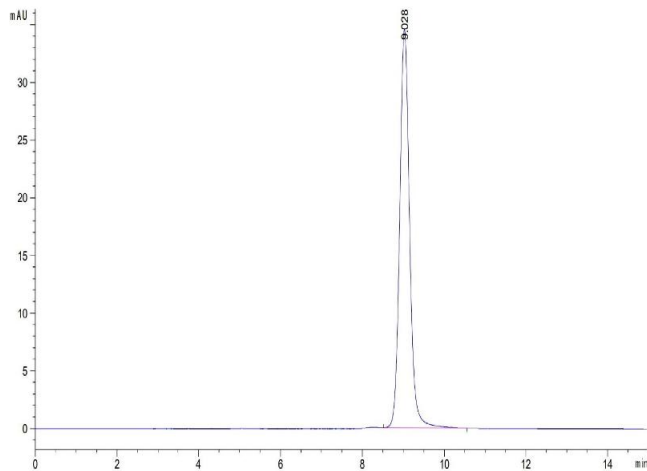
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Human GIP, hFc Tag ELISA
0.05µg Human GIP, hFc Tag Per Well



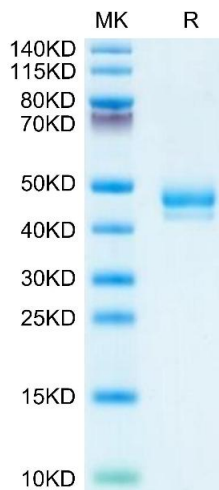
ELISA

Image 1. Immobilized Human GIP, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-GIP Antibody, hFc Tag with the EC50 of 32.6 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human GIP is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human GIP on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .