

Human GIP Protein, Ultra Low Endotoxin

Cat. No. GIP-HM101-UL

Description

Source	Recombinant Human GIP Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu22-Gln93.
Accession	P09681
Molecular Weight	The protein has a predicted MW of 9.2 kDa. Due to glycosylation, the protein migrates to 15-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The potential application of glucose-dependent insulinotropic 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 insulinotropic activity was reduced in type 2 diabetes and by reports that it increased glucagon secretion and adipose deposition in non-diabetic individuals.

Assay Data

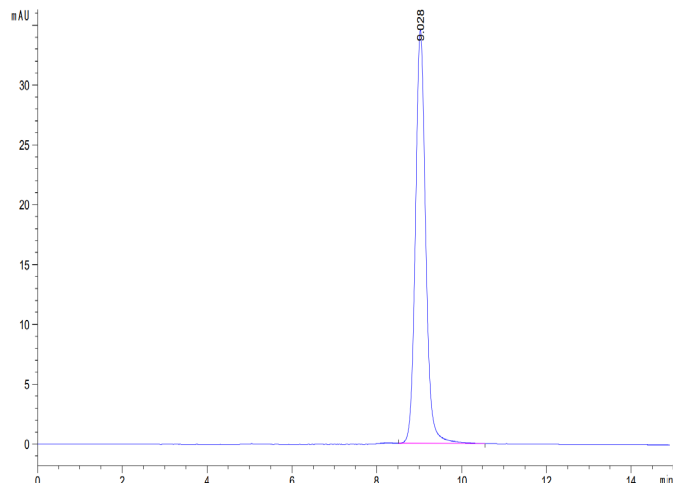
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

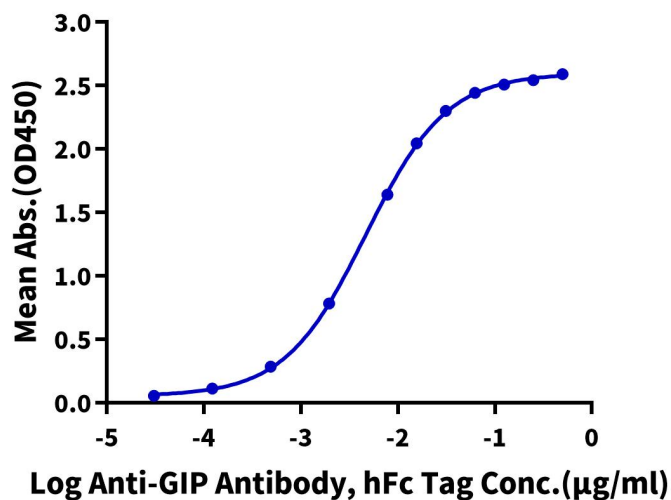


The purity of Human GIP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GIP, His Tag ELISA

0.1µg Human GIP, His Tag Per Well



Immobilized Human GIP, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GIP Antibody, hFc Tag with the EC50 of 4.7ng/ml determined by ELISA.