Biotinylated Cynomolgus GIPR Protein, His,Avitag™

Catalog # GIR-C82E3

Synonym

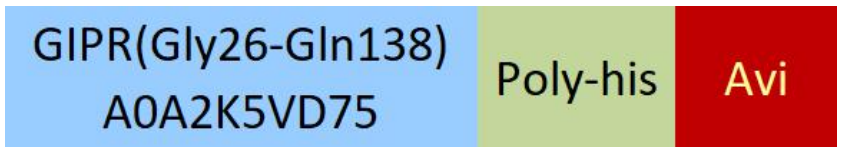
PGQTL2

Source

Biotinylated Cynomolgus GIPR Protein, His,Avitag (GIR-C82E3) is expressed from human 293 cells (HEK293). It contains AA Gly26-Gln138 (Accession # A0A2K5VD75).

Predicted N-terminus: Gly26

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 16.9 kDa. The protein migrates as 25-33 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

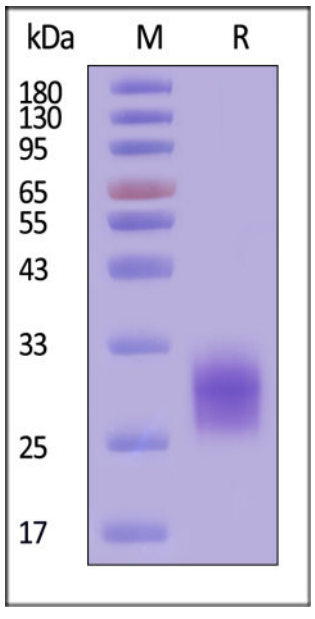
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

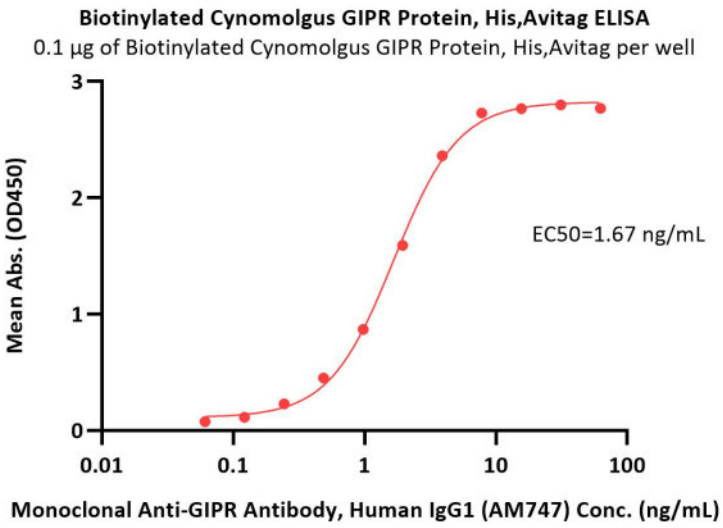
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



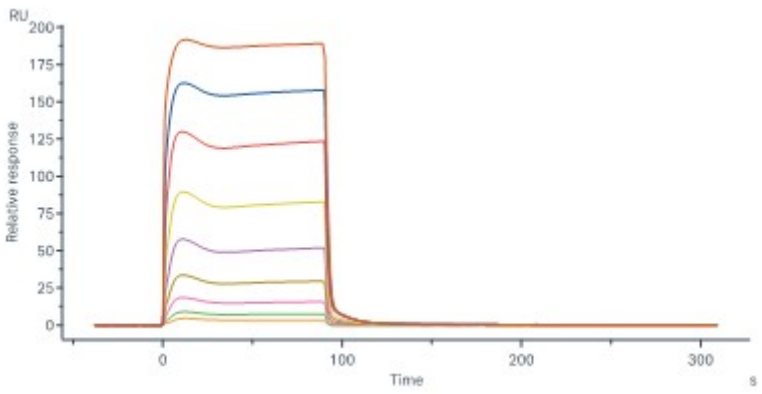
Biotinylated Cynomolgus GIPR Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-ELISA



Immobilized Biotinylated Cynomolgus GIPR Protein, His,Avitag (Cat. No. GIR-C82E3) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Monoclonal Anti-GIPR Antibody, Human IgG1 (AM747) with a linear range of 0.06-4 ng/mL (QC tested).

Bioactivity-SPR



Biotinylated Cynomolgus GIPR Protein, His,Avitag (Cat. No. GIR-C82E3) immobilized on CM5 Chip can bind GIP, human with an affinity constant of 109 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

This gene encodes a G-protein coupled receptor for gastric inhibitory polypeptide (GIP), which was originally identified as an activity in gut extracts that inhibited gastric acid secretion and gastrin release, but subsequently was demonstrated to stimulate insulin release in the presence of elevated glucose. Mice lacking this gene

exhibit higher blood glucose levels with impaired initial insulin response after oral glucose load. Defect in this gene thus may contribute to the pathogenesis of diabetes. [provided by RefSeq, Oct 2011]