



Synonym

Glucagon R, GCGR, Glucagon receptor

Source

Biotinylated Human GCGR Protein, His,Avitag (GCR-H82E3) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Lys 136 (Accession # [P47871-1](#)).

Predicted N-terminus: Ala 26

Molecular Characterization

GCGR(Ala 26 - Lys 136)	Poly-his	Avi
P47871-1		

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 16.6 kDa. The protein migrates as 27-35 kDa 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

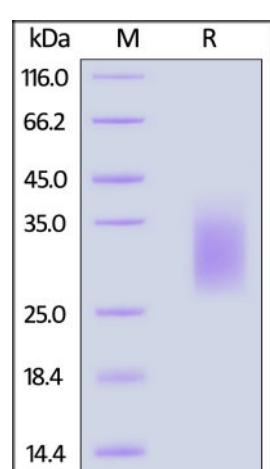
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

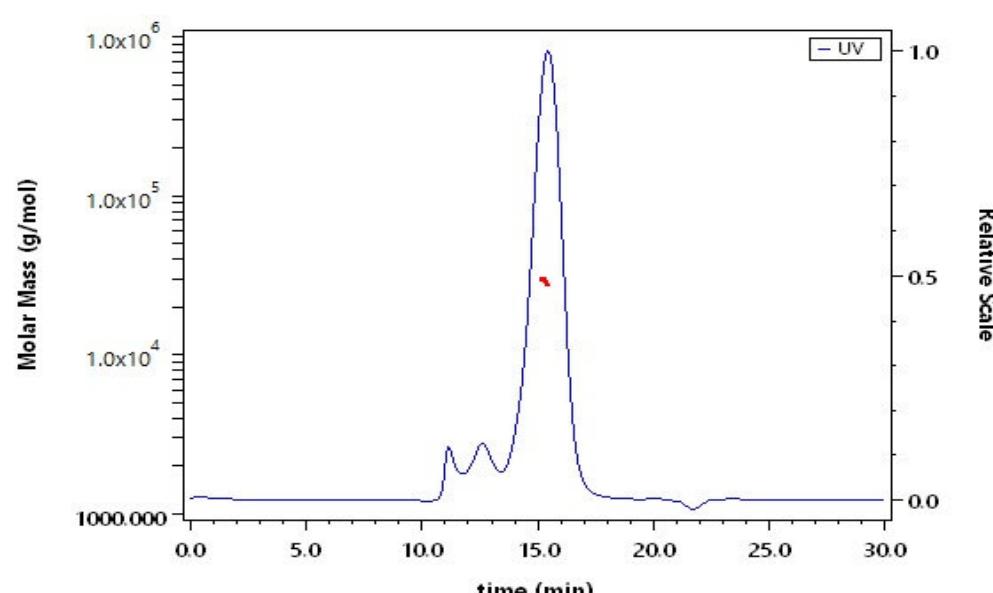
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human GCGR 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%.

SEC-MALS



The purity of Biotinylated Human GCGR Protein, His,Avitag (Cat. No. GCR-H82E3) is more than 85% and the molecular weight of this protein is around 24-34 kDa verified by SEC-MALS.

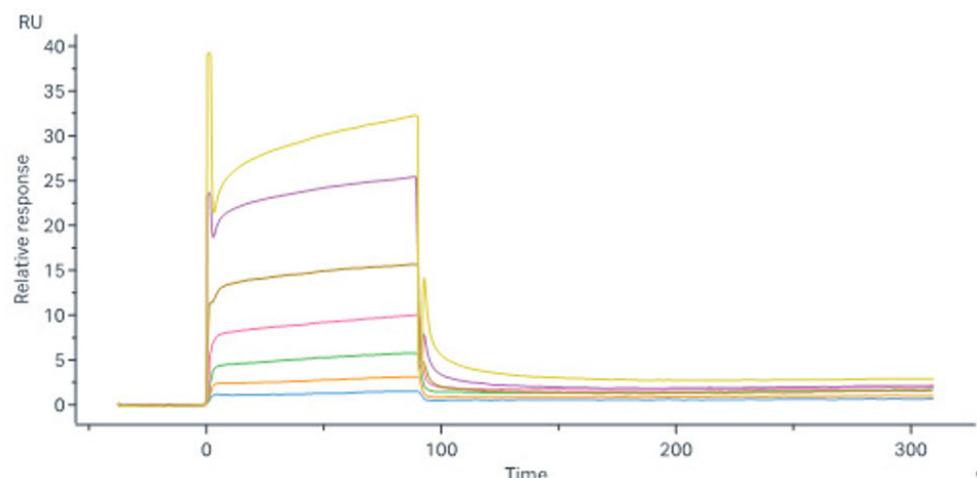
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Biotinylated Human GCGR Protein, His,Avitag (Cat. No. GCR-H82E3) immobilized on CM5 Chip can bind GLP-1 (7-37) with an affinity constant of 48.5 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

Background

G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system.

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