

Human GLP1R Protein, Fc Tag (MALS verified)

Catalog # GLR-H5253



BIOSYSTEMS
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Synonym

GLP-1-R, GLP-1R, glucagon like peptide 1 receptor

Source

Human GLP1R Protein, Fc Tag(GLR-H5253) is expressed from human 293 cells (HEK293). It contains AA Ala 21 - Glu 139 (Accession # [P43220-1](#)).

Predicted N-terminus: Ala 21

Molecular Characterization

GLP1R(Ala 21 - Glu 139) P43220-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 40.2 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

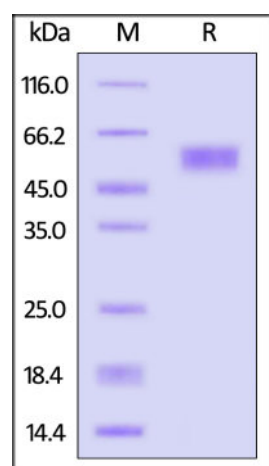
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

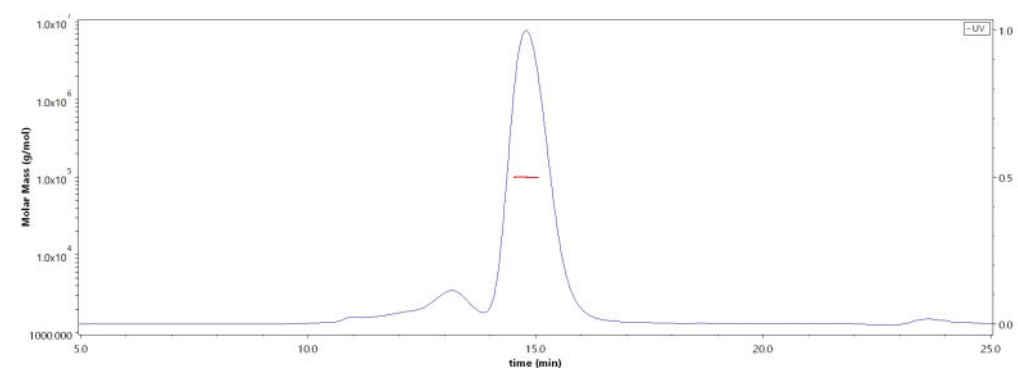
SDS-PAGE



Human GLP1R Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

SEC-MALS



The purity of Human GLP1R Protein, Fc Tag (Cat. No. GLR-H5253) is more than 85% and the molecular weight of this protein is around 90-115 kDa verified by SEC-MALS.

[Report](#)

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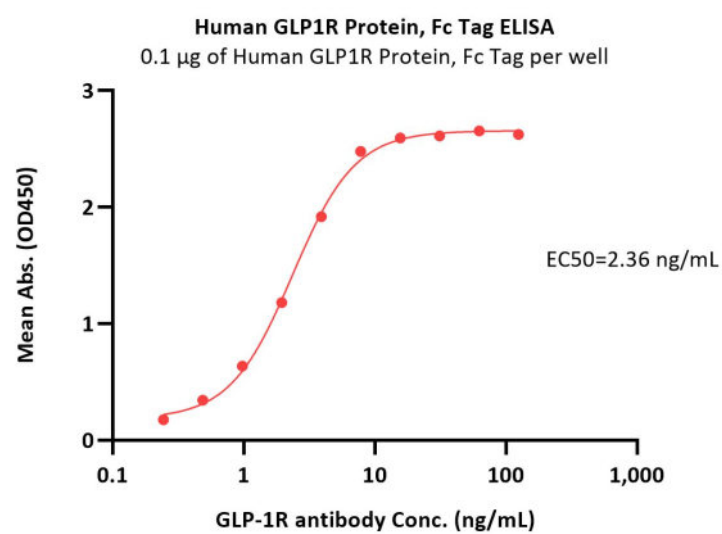
6/4/2024

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Immobilized Human GLP1R Protein, Fc Tag (Cat. No. GLR-H5253) at 1 µg/mL (100 µL/well) can bind GLP-1R antibody with a linear range of 0.2-8 ng/mL (QC tested).

Background

This gene encodes a 7-transmembrane protein that functions as a receptor for glucagon-like peptide 1 (GLP-1) hormone, which stimulates glucose-induced insulin secretion. This receptor, which functions at the cell surface, becomes internalized in response to GLP-1 and GLP-1 analogs, and it plays an important role in the signaling cascades leading to insulin secretion. It also displays neuroprotective effects in animal models. Polymorphisms in this gene are associated with diabetes. The protein is an important drug target for the treatment of type 2 diabetes and stroke.

Clinical and Translational Updates

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