Human GLP-1R Protein

Cat. No. GLP-HM30R

Description

Source	Recombinant Human GLP-1R Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus.
	It contains Arg24-Glu139.
Accession	P43220
Molecular Weight	The protein has a predicted MW of 39.20 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

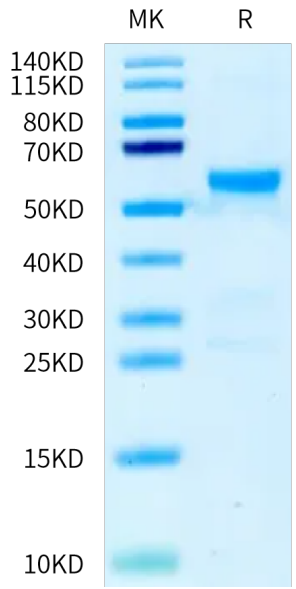
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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.

Background

Glucagon-like peptide-1 (GLP-1) is produced by the gut, stimulates insulin secretion from the pancreatic β-cells, and inhibits glucagon secretion from the α-cells. The GLP-1 receptor (GLP-1R) agonists are used in the treatment of type 2 diabetes (T2DM).

Assay Data

Bis-Tris PAGE



Human GLP-1R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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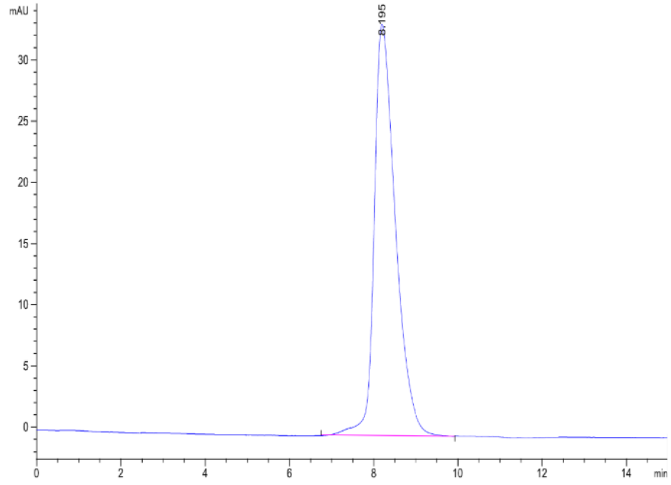
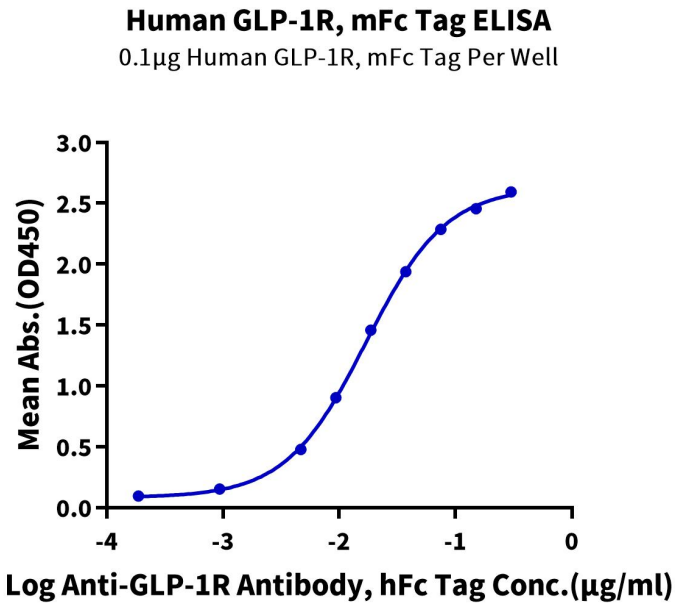
Assay Data



The purity of Human GLP-1R is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human GLP-1R, mFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-GLP-1R Antibody, hFc Tag with the EC50 of 17.0ng/ml determined by ELISA.