

GLP1R Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	glucagon-like peptide 1 receptor
Protein Construction:	A DNA sequence encoding the Human GLP1R (NP_002053.3) (Met1-Glu139) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Arg 24
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_002053.3
Molecular Weight:	16.79 kDa (predicted); 35.91 kDa (reducing conditions)

QC Testing

Biological Activity:	1.Loaded Biotinylated Recombinant Human GLP1R Protein, His & Avi Tag (Cat#TMPY-06864) on HIS1K Biosensor, can bind Exendin-4 with an affinity constant of 58.000 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested). 2.Immobilized Recombinant Human GLP1R Protein (His & Avi Tag), Biotinylated (Cat#TMPY-06864) at 1 µg/mL (100 µL/well) can bind Anti-GLP1R Monoclonal Antibody, Human IgG1, the EC50 is 1-3 ng/mL (QC tested).
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Glucagon-like peptide (GLP)-1 receptor is encoded by GLP1R. GLP1R plays a critical role in mediating the biological actions of GLP1 in mammals and fish. The neuronal GLP1Rs mediate body weight and anorectic effects of liraglutide, but are not required for glucose-lowering effects. Glucagon-like peptide 1 receptor (GLP1R) signaling has been shown to have antipsychotic properties in animal models and to impact glucose-dependent insulin release, satiety, memory, and learning in man. Glucagon-like peptide-1 receptor (GLP1R) and glucose-dependent insulinotropic peptide receptor (GIPR) are their indirect drug targets.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481