Active Recombinant Full Length Human GLP1R Protein, Virus-Like Particles, His tagged

Cat. No. GLP1R-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human glucagon-like peptide-1 receptor (GLP1R) is a member of the class B family of G protein-coupled receptor (GPCR). The recombinant GLP1R protein contains the GLP1R extracellular N-terminus (UniProt# P43220, amino acids Arg24-Glu138) with a His tag at the C-terminus. This protein is expressed in HEK293T cells. The recombinant human GLP1R protein can bind GLP1R-specific antibodies. This recombinant GLP1R protein can be used as an antigen for in vitro assays and antibody screening, and as an immunogen for immunization to generate antibodies targeting more conformational epitopes.
Species	Human
Source	HEK293T
ProteinLength	24-138 aa
Description	Human glucagon-like peptide-1 receptor (GLP1R) is a member of the class B family of G protein-coupled receptor (GPCR) and found on beta cells of the pancreas as well as on neurons of the brain. GLP1R is the receptor of glucagon-like peptide 1 (GLP-1). GLP1R contains an extracellular N-terminus that binds GLP-1 resulting in enhanced insulin secretion and production. Due to its involvement in intracellular signaling pathways that regulate insulin secretion, glucose metabolism, and satiety, GLP1R and GLP-1 are important targets for therapeutics for the treatment of type 2 diabetes and weight loss.

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Molecular Mass	13.5 kDa. The migration range of the protein with glycosylation under non-reducing conditions is between 20 and 40 kDa on SDS-PAGE.
Applications	Verified Applications: ELISA for GLP1R-specific antibody binding assays. Suggested Applications: SPR & BLI for GLP1R-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	GLP1R glucagon-like peptide 1 receptor [Homo sapiens (human)]
Official Symbol	GLP1R
Synonyms	GLP1R; glucagon-like peptide 1 receptor; GLP-1R; GLP-1-R; GLP-1 receptor; MGC138331;
Gene ID	2740
mRNA Refseq	NM_002062
Protein Refseq	NP_002053
MIM	138032
UniProt ID	P43220

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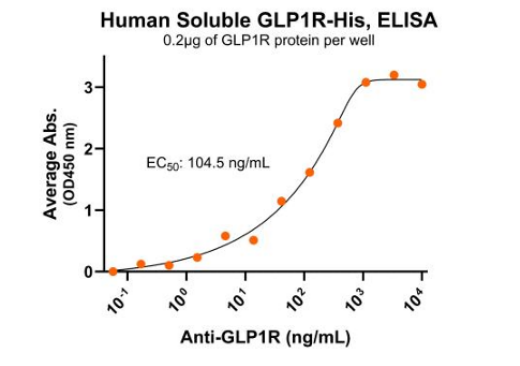
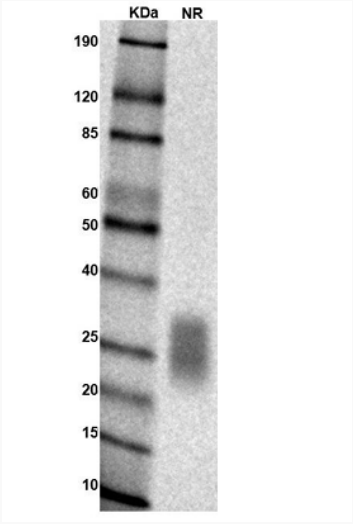
Bioactivity-Antibody Binding	 Immobilized human soluble GLP1R can bind anti-human soluble GLP1R polyclonal antibody with half maximal effective concentration (EC50) range of 52.2-208.8 ng/mL.
SDS-PAGE	 MW: Molecular Weight marker reduced condition. NR: soluble GLP1R under non-reduced condition. The migration range of the protein with glycosylation under non-reducing conditions is between 20 and 40 kDa on SDS-PAGE.

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