

## GLP1R Protein-VLP, Human, Recombinant (Flag & Strep)

### General Information

Synonyms:	GLP-1;GLP-1R;GLP-1-R
Protein Construction:	A DNA sequence encoding the Human GLP1R-VLP (P43220) (Arg24-Ser463) was expressed, with a Flag tag at the N-terminus, and a strep tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P43220
Molecular Weight:	56.04 kDa (predicted)

### QC Testing

Biological Activity:	Immobilized GLP1R Protein-VLP, Human, Recombinant (Flag & Strep) (Cat#TMPY-07121) at 5 µg/mL (100 µL/well) can bind Anti-GLP1R Monoclonal antibody, Human IgG1, the EC50 is 1.5-4.5 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

### Preparation and Storage

Stability & Storage:	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue 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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