

GLP1R Protein, Human (HEK293, Fc)

Cat. No.:	HY-P70352
Synonyms:	rHuGlucagon-like peptide 1 receptor/GLP1R, Fc; Glucagon-like peptide 1 receptor; GLP-1 receptor; GLP-1-R
Species:	Human
Source:	HEK293
Accession:	P43220 (R24-Y145)
Gene ID:	2740
Molecular Weight:	50-70 kDa

PROPERTIES

AA Sequence	<p>R P Q G A T V S L W E T V Q K W R E Y R R Q C Q R S L T E D P P P A T D L F C N</p> <p>R T F D E Y A C W P D G E P G S F V N V S C P W Y L P W A S S V P Q G H V Y R F</p> <p>C T A E G L W L Q K D N S S L P W R D L S E C E E S K R G E R S S P E E Q L L F</p> <p>L Y</p>
Biological Activity	Immobilized Human GLP1R, at 2 µg/mL (100 µL/well) can bind Anti-GLP1R Antibody. The ED ₅₀ is 62.28 ng/mL, corresponding to a specific activity is 1.606×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The GLP1R Protein functions as a G-protein coupled receptor for glucagon-like peptide 1 (GLP-1), participating in a signaling cascade upon ligand binding that activates adenylyl cyclase and increases intracellular cAMP levels. This molecular interaction plays a crucial role in regulating insulin secretion in response to GLP-1. The receptor's activation contributes to the modulation of cellular responses and metabolic processes associated with GLP-1 signaling. Notably, the allosteric modulators NNC0640, PF-06372222, and MK-0893 demonstrate inhibitory effects on the increase of intracellular cAMP levels
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in response to GLP-1, offering potential avenues for pharmacological intervention in this signaling pathway.

Caution: Product has not been fully validated for medical applications. For research use only.

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