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mFc (IgG1) tag

Catalog # PVGS1692

Product Information

Primary Accession	P43220
Species	Human
Sequence	Arg24-Glu139
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per □g by the LAL method.
Biological Activity	Immobilized GLP-1R mFc Chimera, Human (Cat.No.: Z03808) at 1 □g/ml can bind Anti-GLP-1R Antibody.
Expression System	HEK293
Theoretical Molecular Weight	39.20 kDa
Formulation	Lyophilized from 0.22 □m filtered solution in PBS, pH 7.4.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 □g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the lyophilized product remains stable up to 6 months at -20 °C or below as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Additional Information

Gene ID	2740
Other Names	Glucagon-like peptide 1 receptor, GLP-1 receptor, GLP-1-R, GLP-1R, GLP1R
Target Background	The GLP1R, a GPCR, is found on pancreatic beta cells and brain neurons. It regulates blood sugar by enhancing insulin secretion. In humans, it is encoded by the gene GLP1R on chromosome 6. GLP1R is part of the glucagon receptor GPCR family and comprises an extracellular domain that binds the C-terminal helix of GLP-1 and a transmembrane domain that binds the N-terminal region of GLP-1. The TMD domain contains polar residues that regulate biased signaling, while the transmembrane helical boundaries and extracellular surface trigger biased agonism.

Protein Information

Name	GLP1R
Function	G protein-coupled receptor for glucagon-like peptide 1 (GLP- 1) (PubMed:19861722, PubMed:26308095, PubMed:27196125, PubMed:28514449, PubMed:7517895, PubMed:8216285, PubMed:8405712). Ligand binding triggers activation of a signaling cascade that leads to the activation of adenylyl cyclase and increased intracellular cAMP levels (PubMed:19861722, PubMed:26308095, PubMed:27196125, PubMed:28514449, PubMed:7517895, PubMed:8216285, PubMed:8405712). Plays a role in regulating insulin secretion in response to GLP-1 (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.