

## mFc (IgG1) tag

Catalog # PVGS1692

### Product Information

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<b>Primary Accession Species</b>	<a href="#">P43220</a> Human
<b>Sequence</b>	Arg24-Glu139
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per $\mu$ g by the LAL method.
<b>Biological Activity</b>	Immobilized GLP-1R mFc Chimera, Human (Cat.No.: Z03808) at 1 $\mu$ g/ml can bind Anti-GLP-1R Antibody.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	39.20 kDa
<b>Formulation Reconstitution</b>	Lyophilized from 0.22 $\mu$ m filtered solution in PBS, pH 7.4. Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	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

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<b>Gene ID</b>	2740
<b>Other Names</b>	Glucagon-like peptide 1 receptor, GLP-1 receptor, GLP-1-R, GLP-1R, GLP1R
<b>Target Background</b>	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

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

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