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mFc (IgG1) tag
Catalog # PVGS1692

Specification

mFc (IgG1) tag - 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 μg by the LAL method.

Biological Activity
Immobilized GLP-1R mFc Chimera, Human (Cat.No.: Z03808) at 1 μg/ml can bind Anti-GLP-1R Antibody.

Expression System
HEK293

Theoretical Molecular Weight
39.20 kDa

Formulation **Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4.**

Reconstitution
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/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.

mFc (IgG1) tag - 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.

mFc (IgG1) tag - 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

mFc (IgG1) tag - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

mFc (IgG1) tag - Images