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GLP1R Human

Glucagon Like Peptide 1 Receptor Human Recombinant
HRM0047

Product Overview

Name	GLP1R Human
Description	
Glucagon Like Peptide 1 Receptor Human Recombinant	
Accession (Primary)	P43220
Synonyms	
GLP1, GLP2, GRPP	
Introduction	
The glucagon-like peptide-1 receptor, also known as GLP1R, is a receptor protein found on brain neurons and beta cells of the pancreas. GLP1R activates a signalling cascade that leads to the initiation of adenylyl cyclase and increased intracellular cAMP levels. In humans, GLP1R is synthesized by GLP1R gene, which is present on chromosome 6. GLP1R takes part in the control of blood sugar level by enhancing insulin secretion. GLP1R is a part of the glucagon receptor family of G protein-coupled receptors. GLP1R consists of two domains, one transmembrane (TMD) domain, that binds the N-terminal region of GLP-1. And one extracellular (ECD) which binds the C-terminal helix of GLP-1. The TMD domain contains a fulcrum of polar residues that controls the biased signaling of the receptor, while the transmembrane helical boundaries and extracellular surface are a trigger for biased agonism.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GLP1R filtered (0.4 µm) and lyophilized from 0.5mg/ml in 50mM Acetate Buffer, pH 4.0.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles . Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

MKHHHHHHAS RPQGATVSLW ETVQKWREYR RQCQRSLTED PPPATDLFCN RTFDEYACWP DGEPGSFVNV SCPWYLPWAS SVPQGHVYRF CTAEGLWLQK DNSSLPWRDL SECEESKRGE RSSPEEQLLF LY

Solubility

It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor in 100mM Acetate buffer to a working concentration approximately 0.5mg/ml. Further dilutions should be made using buffer containing protein.

Precautions

GLP1R Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P43220)