

## GLP1R

## Recombinant Human Glucagon-like Peptide 1 Receptor, His Tag

<b>Catalog No.</b>	CRG506A CRG506B	<b>Quantity:</b>	10 µg 1.0 mg
<b>Alternate Names:</b>	Glucagon-like peptide 1 receptor, GLP-1 receptor; GLP-1-R; GLP-1R		
<b>Description:</b>	<p>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.</p>		
<b>UniProt ID:</b>	P43220		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	15.55 kDa (aa 24-145) monomer + 6X N-terminal His tag		
<b>Formulation:</b>	Lyophilized 0.4 µm filtered (not sterile filtered) 50 mM acetate buffer, pH 4.0		
<b>Purity:</b>	> 90% by SDS-PAGE		
<b>Amino Acid Sequence:</b>	MKHHHHHHAS RPQGATVSLW ETVQKWREYR RQCQRSLTED PPPATDLFCN RTFDEYACWP DGEPGSFVNV SCPWYLPWAS SVPQGHVYRF CTAEGLWLQK DNSSLPWRDL SECEESKRGE RSSPEEQLLF LY		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute with 100 mM acetate buffer, pH 4.0 to 0.5 mg/ml. Please note, product should be sterile-filtered before use in cell culture.		
<b>Storage &amp; Stability:</b>	Upon receipt, store at -20°C to -80°C for up to 1 year. Reconstituted protein should be stored as aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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