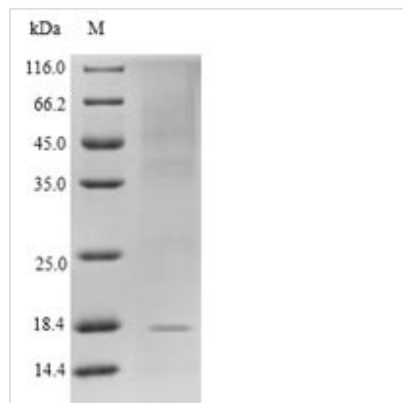




Recombinant Human Glucagon-like peptide 1 receptor (GLP1R), partial

Product Code	CSB-MP009514HU
Relevance	This is a receptor for glucagon-like peptide 1. The activity of this receptor is mediated by G proteins which activate adenyl cyclase.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P43220
Alias	GLP-1 receptor Short name: GLP-1-R Short name: GLP-1R
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	RPQGATVSLWETVQKWREYRRQCQRSLTEDPPPATDLFCNRTFDEYACWPD GEPGSFVNVS CPWYLPWASSVPQGHVYRFCTA EGLWLQKDNSSLPW RD LSE CEESKRGERSSPEEQLLFLY
Lead Time	3-7 business days
Research Area	Neuroscience
Source	Mammalian cell
Gene Names	GLP1R
Expression Region	24-145aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	18.3kDa
Protein Description	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The fusion tag N-terminal 6xHis tag gene was added to the gene sequence corresponding to the mammalian cell of the human GLP1R protein to form the recombinant DNA. The recombinant DNA was cloned into the expression vector and then transfected into the mammalian cell for expression. Following purification, the product is the recombinant human GLP1R protein carrying N-terminal 6xHis tag. The SDS-PAGE assessed the purity of this recombinant GLP1R protein up to 90%. It had an apparent molecular weight of approximately 18 kDa. This recombinant GLP1R protein may find use in neuroscience research.

GLP1R is a gene presented on chromosome 6 providing instructions for making a protein called glucagon-like peptide 1 receptor in human and belongs to G-protein coupled receptor 2 family. GLP1R is a receptor protein expressed in beta cells of the pancreas and neurons of the brain. It is involved in the control of blood sugar level by enhancing insulin secretion. Studies have reported that GLP1R is a significant therapeutic target for small molecule drug discovery given the therapeutic impact of peptide agonists in the diabetes sphere.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.