
Product Data Sheet

Product Name: GLP1R Human
 Cat. No.: GP26110
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	GLP1, GLP2, GRPP		
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.		
Formulation	GLP1R filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 50mM Acetate Buffer, pH 4.0.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

GLP1R Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (aa 24-145) containing 132 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 15.55 kDa (calculated).

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