9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GLP 1 Human

Human Glucagon Like Peptide-1
HRM0044

Product Overview

Name	GLP 1 Human
Description	
Human Glucagon Like Peptide-1	
Accession (Primary)	P01275
Synonyms	
GLP1, Glucagon Like Peptide-1, Incretin hormone.	
Introduction	
Glucagon-like peptide-1 (GLP-1) is derived from the transcription product of the proglucagon gene. The major source of GLP-1 in the body is the intestinal L cell that secretes GLP-1 as a guthormone. The biologically active forms of GLP-1 are: GLP-1-(7-37) and GLP-1-(7-36)NH2. GLP-1 secretion by L cells is dependent on the presence of nutrients in the lumen of the small intestine. The secretagogues (agents that causes or stimulates secretion) of this hormone include major nutrients like carbohydrate, proteinand lipid. Once in the circulation, GLP-1 has a half life of less than 2 minutes, due to rapid degradation by the enzyme dipeptidyl peptidase-4. GLP-1 possesses several physiological properties that make it a subject of intensive investigation as a potential treatment of diabetes mellitus. The known physiological functions of GLP-1 include: Increases insulin secretion from the pancreas in a glucose-dependent manner, decreases glucagon secretion from the pancreas, increases beta cells mass and insulin gene expression, inhibits acid secretion and gastric emptying in the stomach, decreases food intake by increasing satiety.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The GLP-1 peptide was lyophilized with no additives.	
Stability	
Lyophilized Glucagon Like Peptide-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GLP-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 96.0% as determined by RP-HPLC.	

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Amino acid sequence

H-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-NH2.

Solubility

It is recommended to reconstitute the lyophilized Glucagon Like Peptide-1 in sterile H2O at 0.5mg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Synthetic (+)?antroquinonol exhibits dual actions against insulin resistance by triggering AMP kinase and inhibiting dipeptidyl peptidase IV activities Publications: British journal of pharmacology 172.1 (2015): 38-49. Link: GLP 1 prospec publication

Precautions

GLP 1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01275)