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GLP-1 Human (31 a.a.)

Glucagon Like Peptide-1 (31 a.a.) Human Recombinant
HRM0046

Product Overview

Name	GLP-1 Human (31 a.a.)
Description	
Glucagon Like Peptide-1 (31 a.a.) Human Recombinant	
Accession (Primary)	P01275
Synonyms	
GLP1, GLP2, GRPP.	

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The Recombinant GLP-1 concentrated solution (1mg/ml) was lyophilized after extensive dialyses against 0.1mg sodium phosphate monobasic & 1.6mg sodium phosphate dibasic.

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 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

HAEGTFTSDV SSYLEGQAAK EFIAWLVKGR G.

Solubility

It is recommended to reconstitute the lyophilized Glucagon Like Peptide-1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GLP-1 Human (31 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01275)