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## 32-2030: GLP1 (31 a.a.) Recombinant Protein

Alternative Name: GLP1,GLP2,GRPP.

## **Description**

Source: Escherichia Coli. Glucagon Like Peptide-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 31 amino acids and having a molecular mass of 3298.7 Dalton. The GLP-1 is purified by proprietary chromatographic techniques. 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.

## **Product Info**

Amount: 50 µg

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

Content:

The Recombinant GLP-1 concentrated solution (1 mg/ml) was lyophilized after extensive dialyses

against 0.1 mg sodium phosphate monobasic & 1.6 mg sodium phosphate dibasic.

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.

Amino Acid: HAEGTFTSDV SSYLEGQAAK EFIAWLVKGR G.

## **Application Note**

Storage condition:

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

