cellsciences.com

GCG
Human Glucagon-like Peptide 1 / GLP-1 (aa 7-36)

Catalog No.	CSI14048	**Quantity:**	1 mg
	CSI14049		5 mg
	CSI14050		100 mg

Alternate Names: Glucagon-like peptide 1, GLP-1, Incretin hormone

Description: 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 gut hormone. 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, protein and 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.

UniProt ID: P01275

Gene ID: 2641

Source: Synthetic

Molecular Weight: 3297.7 Dalton (30 aa) monomer

Formulation: GLP-1 peptide was lyophilized at 1 mg/ml with no additives.

Purity: >96% by RP-HPLC

Purification: The GLP-1 is purified by proprietary chromatographic techniques.

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.

Reconstitution: It is recommended to reconstitute the lyophilized GLP-1 in sterile water at 0.5 mg/ml, which can then be further diluted to other aqueous solutions.

Storage & Stability: Upon receipt, store unopened at -20°C to -80°C for 1 year. Upon reconstitution, store at 2 -8°C up to 1 week, or at -20°C to -80°C for long term. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA).
Avoid repeated freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com