# Recombinant Human GLP-1

20150227BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

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|---|---|
| **Cat.-no.:** | **100-339S** |
| Size: | 200 µg |
| Lot. No.: | According to product label |

## Scientific Background

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|---|---|
| **Gene-ID (NCBI):** | *2641* |
| **Synonyms:** | GLP1; GLP2; GRPP |

GLP-1 is a proglucagon-derived peptide hormone secreted primarily by intestinal L cells during feeding. Its major physiological function is stimulation of pancreatic β-cells to release appropriate amounts of insulin after glucose absorption. Other biological actions exhibited by GLP-1 include suppression of plasma glucagons levels, inhibition of gastric motility, and promotion of satiety. The secretion of GLP-1 from intestinal L cells is stimulated by nutrients, hormones, and neural inputs. On the other hand, insulin has been reported to inhibit GLP-1 release, indicating that a feedback loop mechanism regulates GLP-1 secretion. In addition to being the precursor of GLP-1, proglucagon, whose primary structure is highly conserved in mammalian species, is also the precursor for other members of the glucagon family of peptide hormones including glicentin-related pancreatic peptide (GRPP), glucagons, and GLP-2. Recombinant human GLP-1 is a 3.3 kDa consisting of 31 amino acid residues.

**Sequence**

HAEGTFTSDV SSYLEGQAAK EFIAWLVKGR G

**Database References**

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| **Protein RefSeq:** | NP_002045.1 |
| **Uniprot ID:** | P01275 |
| **mRNA RefSeq:** | NM_002054.4 |

## Product Specifications

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| **Expressed in** | E. coli |
| **Purity** | > 98% by SDS-PAGE & HPLC analyses |
| **Endotoxin level** | < 0.1 ng /µg of protein (<1EU/µg). |
| **Formulation** | lyophilized |
| **Length (aa):** | 31 |
| **MW:** | 3.3 kDa |

**Biological Activity:** Data not available.

*AVOID REPEATED FREEZE AND THAW CYCLES!*

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