

# Recombinant Human Zinc Finger, GATA-like Protein 1

**Cat. No.** ZGLP1-941H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant human GLP-1 produced in <i>E.coli</i> is a 3.3 kDa consisting of 31 amino acid residues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>GLP-1 is a proglucagon-derived peptide hormone secreted primarily by intestinal L cells during feeding. Its major physiological function is stimulation of pancreatic <math>\beta</math>-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.</p> |
| <b>Purity</b>           | 98 % (SDS-PAGE, HPLC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin level</b>  | < 0.1 ng per ug of GLP-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Stabilizer</b>       | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formulation</b>           | Lyophilized.                                                                                                                                                                                                                                     |
| <b>Biologically Activity</b> | Data not available!                                                                                                                                                                                                                              |
| <b>Stability</b>             | The lyophilized protein is stable for at least 2 years from date of receipt at -20°C.<br>Reconstituted GLP-1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles. |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>             | ZGLP1 zinc finger, GATA-like protein 1 [ Homo sapiens ]                                                                                                                                                                                          |
| <b>Synonyms</b>              | ZGLP1; zinc finger, GATA-like protein 1; GLP1; GLP-1; FLJ39511; FLJ39703; GATA like protein 1                                                                                                                                                    |
| <b>Gene ID</b>               | 100125288                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>           | NM_001103167                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>        | NP_001096637                                                                                                                                                                                                                                     |
| <b>MIM</b>                   | 611639                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>            | P0C6A0                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b>   | 19p13.2                                                                                                                                                                                                                                          |
| <b>Function</b>              | metal ion binding; sequence-specific DNA binding; transcription factor activity; transcription repressor activity; zinc ion binding                                                                                                              |

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