

# Recombinant Human GCG/ALB therapeutic protein(Albiglutide)

**Cat. No.** GLP1&ALB-P020H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Human GLP-1 agonist therapeutic protein is a glucagon-like peptide-1 agonist for treatment of type 2 diabetes. It is a dipeptidyl peptidase-4-resistant glucagon-like peptide-1 dimer fused to human albumin.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | The protein encoded by this gene is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. |
| <b>Molecular Mass</b>   | 72970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | < 0.1 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >96%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Alias</b>            | GCG; GLP1; GLP2; GRPP; Albiglutide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## GENE INFORMATION

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| <b>Gene Name</b>           | GCG glucagon [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | GCG                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | GCG; glucagon; glicentin related polypeptide; GLP1; GLP2; glucagon like peptide 1; glucagon like peptide 2; GRPP; glucagon-like peptide 1; glucagon-like peptide 2; glicentin-related polypeptide;                                                                                                                                                                                                         |
| <b>Gene ID</b>             | 2641                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_002054                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_002045                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 138030                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | P01275                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 2q36-q37                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Class B/2 (Secretin family receptors), organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; |
| <b>Function</b>            | glucagon receptor binding; hormone activity; receptor binding;                                                                                                                                                                                                                                                                                                                                             |