

## Glucagon Recombinant Protein | GCG recombinant protein

Recombinant Human Glucagon, His Tag

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38566</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Glucagon; Recombinant Human Glucagon; His Tag; Glucagon Human; His; Glucagon Human Recombinant; GCG; GLP1; GLP2; GRPP; GCG recombinant protein

### PRODUCT SPECIFICATIONS

|                     |                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                | E Coli                                                                                                                                                      |
| Purity/Purification | Greater than 95.0% as determined by SDS-PAGE.                                                                                                               |
| Form/Format         | Glucagon protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.<br>Sterile filtered colorless solution. |
| Concentration       | 0.5mg/ml (varies by lot)                                                                                                                                    |
| Sequence            | MGSSHHH HHHSSGLVPR GSHMKR HDEFERHAEG TFTSDVSSYL EGQAAKEFIA WLVKGRGRRD<br>FP EEVAIV EE LGRRHADGSF SDEMNTILDN LAARDFINWL IQTKITDRK                            |
| Sequence Length     | 180                                                                                                                                                         |

### ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GCG recombinant protein | <p><b>Description:</b> Glucagon Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 112 amino acids (90-180 a.a.) and having a molecular mass of 12.8kDa. Glucagon is fused to a 21 amino acid His-tag at N-terminus &amp; purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Glucagon is an important hormone involved in carbohydrate metabolism. The hormone is synthesized and secreted from alpha cells (?-cells) of the islets of Langerhans, which are located in the endocrine portion of the pancreas. Glucagon is released when the glucose level in the blood is low (hypoglycemia), causing the liver to convert stored glycogen into glucose and release it into the bloodstream. The action of glucagon is thus opposite to that of insulin, which instructs the body's cells to take in glucose from the blood in times of satiation. Glucagon is beneficial for the culture of some cell types. It has been used in some biochemical regulation studies of glycogenolysis in hepatocytes. It has been also been found to induce DNA replication in primary cultures of adult rat hepatocytes when used in combinations with EGF and Insulin. Glucagon increases the blood glucose concentration by promoting rapid breakdown of liver glycogen, and also acts to relax smooth muscle such as the gastrointestinal tract.</p> |
| Product Categories/Family for GCG recombinant protein   | Hormones; Hormones; Glucagon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### NCBI AND UNIPROT INFORMATION

|                           |                        |
|---------------------------|------------------------|
| NCBI GI #                 | 4503945                |
| NCBI GeneID               | 2641                   |
| NCBI Accession #          | NP_002045.1            |
| NCBI GenBank Nucleotide # | NM_002054.4            |
| UniProt Accession #       | P01275; Q53TP6; A6NN65 |

|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Molecular Weight                 | 20,909 Da                                                                                                 |
| NCBI Official Full Name          | glucagon preproprotein                                                                                    |
| NCBI Official Synonym Full Names | glucagon                                                                                                  |
| NCBI Official Symbol             | GCG                                                                                                       |
| NCBI Official Synonym Symbols    | GLP1; GLP2; GRPP                                                                                          |
| NCBI Protein Information         | glucagon; glicentin-related polypeptide; glucagon-like peptide 1; glucagon-like peptide 2; preproglucagon |
| UniProt Protein Name             | Glucagon                                                                                                  |
| UniProt Gene Name                | <b>GCG</b>                                                                                                |
| UniProt Synonym Gene Names       | GRPP; OXM; OXY; GLP-1; GLP-1(7-37); GLP-1(7-36); GLP-2                                                    |
| UniProt Entry Name               | GLUC_HUMAN                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gcg-recombinant-protein-e-coli/38566>