

## GCG Protein, Human, Recombinant (His)

### General Information

Synonyms:	Glicentin;GRPP;GLP-2;Glucagon-Like Peptide 1;OXM;Glucagon;GLP-1;GCG;Glucagon-Like Peptide 2;Oxytomodulin;Glicentin-Related Polypeptide;OXY;Incretin Hormone
Protein Construction:	Arg21-Lys180
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01275
Molecular Weight:	19 KDa (reducing condition)
AA Sequence:	Arg21-Lys180

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 50% Glycerol, pH 8.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

Shipping with blue ice.

### Protein Background

Glucagon is a secreted protein and belongs to the glucagon family. Glucagon can be cleaved into 8 chains, playing an important role in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon can regulates blood glucose by decreasing glycolysis and increasing gluconeogenesis. In addition, Glucagon is involved in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon release is stimulated by hypoglycemia and inhibited by hyperglycemia, insulin, and somatostatin. In the glucagon antagonist, His-53 and Phe-58 are missing. This antagonist has been successfully utilized to reduce glucose concentration in vivo.

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