Recombinant Protein Technical Manual

Recombinant Human Glucagon/GCG Protein (His Tag)

RPES4987

Product Data:

Product SKU: RPES4987

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P01275

Protein Information:

Molecular Mass: 18.6 kDa

AP Molecular Mass: 19 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,200mM NaCl,1mM DTT,50% Glycerol,pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Glucagon; Glicentin; Glicentin-Related Polypeptide; GRPP; Oxyntomodulin; OXM; OXY; Glucagon; Glucagon-Like Peptide 1; GLP; Incretin Hormone; Glucagon-like Peptide 1; GLP; Glucagon-Like Peptide 2; GLP-2; GCG

Immunogen Information:

Sequence: Arg21-Lys180

Background:

Glucagon is a secreted protein and belongs to the glucagon family. Glucagon can be cleved 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.