

Recombinant Mouse Gcg protein, His & T7-tagged

Cat. No. Gcg-6744M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gcg aa. (His21~Lys180 (Accession # P55095)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	His21~Lys180
Description	This gene encodes glucagon, a pancreatic hormone that counteracts the action of insulin in the bloodstream. The encoded protein is processed to generate glucagon and two other glucagon-like peptides, GLP1 and GLP2. Glucagon stimulates gluconeogenesis, glycogenolysis and lipolysis. GLP1 induces secretion of insulin, suppresses glucagon secretion and inhibits feeding. GLP2 induces intestinal absorption of glucose by stimulating the growth of intestinal cells and preventing apoptosis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.3kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Gcg glucagon [<i>Mus musculus</i> (house mouse)]
Official Symbol	Gcg
Synonyms	Glu; PPG; GLP-1; glucagon-like peptide I; glucagon
Gene ID	14526
mRNA Refseq	NM_008100.4
Protein Refseq	NP_032126.1

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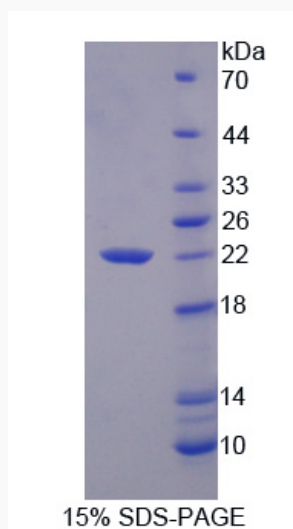
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UniProt ID

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SDS-PAGE

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