

Recombinant Human GCG therapeutic protein(Glucagon)

Cat. No. GCG-P043H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	29 residue peptide hormone. Glucagon is synthesized in a special non- pathogenic laboratory strain of Escherichia coli bacteria that has been genetically altered by the addition of the gene for glucagons.
Species	Human
Source	E.coli
Description	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.
Molecular Mass	3.8 kDa
AA Sequence	HSQGTFTSDYSKYLDNRRAQDFVQWLMNT
Endotoxin	< 1.0 EU per µg of the protein
Purity	>95%

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Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Alias	GCG; GLP1; GLP2; GRPP; Glucagon
GENE INFORMATION	
Gene Name	GCG glucagon [Homo sapiens]
Official Symbol	GCG
Synonyms	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;
Gene ID	2641
mRNA Refseq	NM_002054
Protein Refseq	NP_002045
MIM	138030
UniProt ID	P01275
Chromosome Location	2q36-q37
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem;

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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;

Function

glucagon receptor binding; hormone activity; receptor binding;

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