

Recombinant Human GCG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GCG-1451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GCG MS Standard C13 and N15-labeled recombinant protein (NP_002045) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	20.9 kDa
AA Sequence	MKSIYFVAGLFVMLVQGSWQRSLQDTEEKSRFSASQADPLSDPDQMNE DKRHSQ GTFTSDYSKYLDSRRAQDFVQWLMNTRNRNNIAKRHDEFERHAEGTFTSDVSSYL EGQAAKEFIAWLVKGRGRRDFPEEVAIVEELGRRHADGSFSDEMNTILDNLAARDFI NWLIQTKITDRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GCG glucagon [Homo sapiens (human)]
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

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