Recombinant Human GCG protein, His-tagged

Cat. No. GCG-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCG(Arg21-Lys180) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	21-180 a.a.
Description	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.
Form	Supplied as a 0.2 μm filtered solution of 20mM TrisHCl,200mM NaCl,1mM DTT,50% Glycerol,pH 8.0.
AA Sequence	RSLQDTEEKSRSFSASQADPLSDPDQMNEDKRHSQGTFTSDYSKYLDSRRAQDFV QWLMNTKRNR NNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFIAWLVKGRGRR DFPEEVAIVEELGRRHADGS FSDEMNTILDNLAARDFINWLIQTKITDRK

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

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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