

Recombinant Human GCG

Cat. No. GCG-30529TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment human Oxyntomodulin is a single, non-glycosylated polypeptide chain containing 37 amino acids and having a molecular mass of 4kDa.
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.
Form	Lyophilised: Reconstitute in 20mM acetic acid.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino
acids

HSQGTFTSDYSKYLDSSRAQDFVQWLMNTKRKNKNIA

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;

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; FOXA1 transcription factor network, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem;

Function glucagon receptor binding; hormone activity; receptor binding;

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