GCG Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GCG, Blocking Peptide
Full Product Name	GCG Peptide - middle region
Product Gene Name	GCG blocking peptide
Product Synonym Gene Name	GLP1; GLP2; GRPP
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GCG peptide (MBS3231120) is used for blocking the activity of GCG antibody (MBS3206156)
Molecular Weight	4kDa
OMIM	138030
Product Categories/Family for GCG blocking peptide	Peptide
Applications Tested/Suitable for GCG blocking peptide	Western Blot (WB)
Related Product Information for GCG blocking peptide	This is a synthetic peptide designed for use in combination with anti-GCG antibody made Target Description: GCG 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 li
Other Notes	Small volumes of GCG blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GCG purchase	MBS3231120 is a blocking peptide targeting GCG. Also known as GCG Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCG. It may not necessarily be applicable to this product.

NCBI GI #	4503945
NCBI GeneID	2641
NCBI Accession #	NP_002045
UniProt Primary Accession #	P01275
UniProt Related Accession #	P01275
GenBank Nucleotide #	NM_002054
NCBI Official Full Name	glucagon preproprotein
NCBI Official Synonym Full Names	glucagon
NCBI Official Symbol	GCG
NCBI Official Synonym Symbols	GLP1; GLP2; GRPP; GLP-1

UniProt Protein Name	Glucagon
UniProt Synonym Protein Names	Incretin hormone
Protein Family	Glucagon
UniProt Gene Name	GCG
UniProt Synonym Gene Names	GRPP; OXM; OXY; GLP-1; GLP-1(7-37); GLP-1(7-36); GLP-2
UniProt Entry Name	GLUC_HUMAN
NCBI Protein Information	glucagon
NCBI Summary for GCG	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. [provided by RefSeq, Jul 2008]
UniProt Comments for GCG	GCG: Glucagon plays a key role in glucose metabolism and homeostasis. Regulates blood glucose by increasing gluconeogenesis and decreasing glycolysis. A counterregulatory hormone of insulin, raises plasma glucose levels in response to insulin-induced hypoglycemia. Plays an important role in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon release is stimulated by hypoglycemia and inhibited by hyperglycemia, insulin, and somatostatin. GLP-1 and GLP-2 are induced in response to nutrient ingestion. Glucagon is secreted in the A cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP1 and GLP2 are also secreted in selected neurons in the brain. Belongs to the glucagon family. Protein type: Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 2q36-q37 Cellular Component: extracellular space; endoplasmic reticulum lumen; extracellular region; plasma membrane Molecular Function: identical protein binding; protein binding; hormone activity; glucagon receptor binding; receptor binding Biological Process: positive regulation of protein binding; positive regulation of histone H3-K4 methylation; signal transduction; positive regulation of peptidyl-serine phosphorylation; G-protein signaling, coupled to cAMP nucleotide second messenger; response to starvation; G-protein coupled receptor protein signaling pathway; cell proliferation; cellular protein metabolic process; positive regulation of protein kinase activity; positive regulation of cAMP biosynthetic process; energy reserve metabolic process; feeding behavior; regulation of insulin secretion; negative regulation of apoptosis
Research Articles on GCG	**1.** GPR119 is the oleoyl-lysophosphatidylinositol receptor that is required for GLP-1 secretion in enteroendocrine cells.
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