GLP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	GLP1, Blocking Peptide
Full Product Name	GLP1 Blocking Peptide
Product Gene Name	GLP1 blocking peptide
Product Synonym Names	GCG; GLP-1; GLP-1(7-36); GLP-1(7-37); GLP-2; GLUC_HUMAN; Glucagon-like peptide 2; GRPP; Incretin hormone; OXM; OXY
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GLP1 peptide (MBS9625631) is used for blocking the activity of GLP1 antibody (MBS9606914)
Molecular Weight	20,909 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (162999379..163008914, complement). Location: 2q36-q37
OMIM	138030
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for GLP1 blocking peptide	Blocking/Control
Related Product Information for GLP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of GLP1 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 GLP1 purchase	MBS9625631 is a blocking peptide targeting GLP1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLP1. It may not necessarily be applicable to this product.

NCBI GI #	4503945
NCBI GeneID	2641
NCBI Accession #	NP_002045.1
UniProt Primary Accession #	P01275
UniProt Secondary Accession #	Q53TP6; A6NN65

UniProt Related Accession #	P01275
GenBank Nucleotide #	NM_002054.4
NCBI Official Full Name	glucagon preproprotein
NCBI Official Synonym Full Names	glucagon
NCBI Official Symbol	GCG
NCBI Official Synonym Symbols	GLP1; GLP2; GRPP
UniProt Protein Name	Glucagon
UniProt Synonym Protein Names	Incretin hormone
Protein Family	Germin-like protein
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; preproglucagon; glucagon-like peptide 1; glucagon-like peptide 2; glicentin-related polypeptide
NCBI Summary for GLP1	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 GLP1	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 GLP1	**1.** we aim to integrate the available data on the metabolic and neuroprotective effects of GLP-1 mimetics in the central nervous system (CNS) with the complex crosstalk between T2D-AD
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