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

PRODUCT OVERVIEW

Product Name	CCKBR, Blocking Peptide
Full Product Name	CCKBR Blocking Peptide
Product Gene Name	CCKBR blocking peptide
Product Synonym Gene Name	CCKBR
Product Synonym Names	CCK B; CCK B receptor; CCK BR; CCK-B receptor; CCK-BR; CCK2 R; CCK2 receptor; CCK2-R; CCKB; CCKB receptor; CCKBR; CCKR Type B; CCKRB; Cholecystokinin 2 receptor; Cholecystokinin B receptor; Cholecystokinin-2 receptor; Cholecystokinin2 receptor; CholecystokininB receptor; GASR; GASR_HUMAN; Gastrin receptor; Gastrin/cholecystokinin type B receptor; Gastrincholecystokinin brain receptor
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	CCKBR peptide (MBS9623024) is used for blocking the activity of CCKBR antibody (MBS9604307)
Molecular Weight	41,504 Da
OMIM	118445
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 CCKBR blocking peptide	Blocking/Control
Related Product Information for CCKBR 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 CCKBR 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 CCKBR purchase	MBS9623024 is a blocking peptide targeting CCKBR.

ADDITIONAL DETAILS

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

NCBI GI #	966751426
NCBI GeneID	887
NCBI Accession #	NP_001304958.1

UniProt Primary Accession #	P32239
UniProt Secondary Accession #	O75824; Q16144; Q92492; Q96LC6; Q9NYK7; Q9UBV1; A8K7P9
UniProt Related Accession #	P32239
GenBank Nucleotide #	NM_001318029.1
NCBI Official Full Name	gastrin/cholecystokinin type B receptor isoform 2
NCBI Official Synonym Full Names	cholecystokinin B receptor
NCBI Official Symbol	CCKBR
NCBI Official Synonym Symbols	GASR; CCK-B; CCK2R
UniProt Protein Name	Gastrin/cholecystokinin type B receptor
UniProt Synonym Protein Names	Cholecystokinin-2 receptor
Protein Family	Gastrin/cholecystokinin type B receptor
UniProt Gene Name	CCKBR
UniProt Synonym Gene Names	CCKRB; CCK-B receptor; CCK-BR; CCK2-R
UniProt Entry Name	GASR_HUMAN
NCBI Protein Information	gastrin/cholecystokinin type B receptor
NCBI Summary for CCKBR	This gene encodes a G-protein coupled receptor for gastrin and cholecystokinin (CCK), regulatory peptides of the brain and gastrointestinal tract. This protein is a type B gastrin receptor, which has a high affinity for both sulfated and nonsulfated CCK analogs and is found principally in the central nervous system and the gastrointestinal tract. Alternative splicing results in multiple transcript variants. A misspliced transcript variant including an intron has been observed in cells from colorectal and pancreatic tumors. [provided by RefSeq, Dec 2015]
UniProt Comments for CCKBR	CCKBR: Receptor for gastrin and cholecystokinin. The CKK-B receptors occur throughout the central nervous system where they modulate anxiety, analgesia, arousal, and neuroleptic activity. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Belongs to the G-protein coupled receptor 1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 11p15.4 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: type B gastrin/cholecystokinin receptor binding; protein binding; gastrin receptor activity; 1-phosphatidylinositol-3-kinase regulator activity; cholecystokinin receptor activity; phosphoinositide phospholipase C activity Biological Process: gastric acid secretion; gland development; metabolic process; regulation of phosphoinositide 3-kinase activity; cell proliferation; elevation of cytosolic calcium ion concentration; cell surface receptor linked signal transduction; gut development; sensory perception; positive regulation of cell proliferation; digestion; feeding behavior; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating)
Research Articles on CCKBR	**1.** High CCK2R expression is associated with cancer.
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