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

PRODUCT OVERVIEW

Product Name	IPMK, Blocking Peptide
Full Product Name	IPMK Blocking Peptide
Product Gene Name	IPMK blocking peptide
Product Synonym Names	3; 4; 6-tetrakisphosphate 5-kinase; Inositol 1; Inositol 1, 3, 4, 6 tetrakisphosphate 5 kinase; Inositol polyphosphate multikinase; Ipmk; IPMK_HUMAN
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	IPMK peptide (MBS9623537) is used for blocking the activity of IPMK antibody (MBS9604820)
Molecular Weight	47,222 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (59951278..60027694, complement). Location: 10q21.1
OMIM	609851
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 IPMK blocking peptide	Blocking/Control
Related Product Information for IPMK 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 IPMK 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 IPMK purchase	MBS9623537 is a blocking peptide targeting IPMK.

ADDITIONAL DETAILS

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

NCBI GI #	22726201
NCBI GeneID	253430
NCBI Accession #	NP_689416.1
UniProt Primary Accession #	Q8NFU5
UniProt Related Accession #	Q8NFU5

GenBank Nucleotide #	NM_152230.4
NCBI Official Full Name	inositol polyphosphate multikinase
NCBI Official Synonym Full Names	inositol polyphosphate multikinase
NCBI Official Symbol	IPMK
UniProt Protein Name	Inositol polyphosphate multikinase
UniProt Synonym Protein Names	Inositol 1,3,4,6-tetrakisphosphate 5-kinase
Protein Family	Inositol polyphosphate multikinase
UniProt Gene Name	IPMK
UniProt Synonym Gene Names	IMPK
UniProt Entry Name	IPMK_HUMAN
NCBI Protein Information	inositol polyphosphate multikinase; inositol 1,3,4,6-tetrakisphosphate 5-kinase
NCBI Summary for IPMK	This gene encodes a member of the inositol phosphokinase family. The encoded protein has 3-kinase, 5-kinase and 6-kinase activities on phosphorylated inositol substrates. The encoded protein plays an important role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate, and has a preferred 5-kinase activity. This gene may play a role in nuclear mRNA export. Pseudogenes of this gene are located on the long arm of chromosome 13 and the short arm of chromosome 19. [provided by RefSeq, Dec 2010]
UniProt Comments for IPMK	IPMK: Inositol phosphate kinase with a broad substrate specificity. Has a preference for inositol 1,4,5-trisphosphate (Ins(1,4,5)P3) and inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P4). Belongs to the inositol phosphokinase (IPK) family. Protein type: EC 2.7.1.151; Carbohydrate Metabolism - inositol phosphate; Kinase, other; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10q21.1 Cellular Component: nucleoplasm; nucleolus; nucleus Molecular Function: inositol tetrakisphosphate 3-kinase activity; inositol trisphosphate 6-kinase activity; inositol trisphosphate 3-kinase activity; ATP binding Biological Process: inositol phosphate metabolic process; neural tube formation; phosphorylation; inositol phosphate biosynthetic process
Research Articles on IPMK	**1.** overview of possible roles of IPMK in regulation of metabolism: IPMK appears to mediate activation of mammalian target of rapamycin (mTOR) in response to essential amino acids. IPMK appears to mediate hypothalamic control of food intake. [REVIEW]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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