Inositol Hexakisphosphate Kinase 2 (IP6K2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inositol hexakisphosphate kinase 2 (Ip6k2), Recombinant Protein
Full Product Name	Recombinant Mouse Inositol hexakisphosphate kinase 2 (Ip6k2)
Product Gene Name	Ip6k2 recombinant protein
Product Synonym Gene Name	Ip6k2
Sequence	MSPAFRTMDV EPRTKGILLE PFVHQVGGHS CVLRFNETTL CKPLVPREHQ FYETLPAEMR RFTPQYKAVL IFVRCADEFG ASGNIETKEQ GVVSVRFEED EDRNLCLIAY PLKGDHGTVD IVDNSDCEPK SKLLRWTNKK HHALETEKNP KDWVRQHRKE EKMKSHKLEE EFEWLKKSEV LYYSVEKKGN VSSQLKHYNP WSMKCHQQQL QRMKENAKHR NQYKFILLEN LTSRYEVPCV LDLKMGTRQH GDDASEEKAA NQIRKCQQST SAVIGVRVCG MQVYQAGTGQ LMFMNKYHGR KLSVQGFKEA LFQFFHNGRY LRRELLGPVL KKLTELKAVL ERQESYRFYS SSLLVIYDGK EWPEVTLDSD AEDLEDLSEE SADESAGAYA YKPIGASSVD VRMIDFAHTT CRLYGEDSVV HEGQDAGYIF GLQSLIDIVT EISEESGE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	51,644 Da
Sequence Positions	1-448, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q80V72
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ip6k2 recombinant protein	This gene encodes a protein that belongs to the inositol phosphokinase (IPK) family. This protein is likely responsible for the conversion of inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7 PP-InsP5). It may also convert 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4 and affect the growth suppressive and apoptotic activities of interferon-beta in some ovarian cancers. Alternative splicing results in multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of Ip6k2 recombinant protein 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 Ip6k2 purchase	MBS1379873 is a recombinant protein targeting Ip6k2. Also known as Recombinant Mouse Inositol hexakisphosphate kinase 2 (Ip6k2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ip6k2. It may not necessarily be applicable to this product.

NCBI GI #	225903432
NCBI GeneID	76500
NCBI Accession #	NP_083910.2
UniProt Primary Accession #	Q80V72
UniProt Secondary Accession #	E9QMT6
UniProt Related Accession #	Q80V72
GenBank Nucleotide #	NM_029634.2
NCBI Official Full Name	inositol hexakisphosphate kinase 2
NCBI Official Synonym Full Names	inositol hexaphosphate kinase 2
NCBI Official Symbol	Ip6k2
NCBI Official Synonym Symbols	Ihpk2; AW050208; 1500005N04Rik
UniProt Protein Name	Inositol hexakisphosphate kinase 2
UniProt Synonym Protein Names	P(i)-uptake stimulator; PiUS
Protein Family	Inositol hexakisphosphate kinase
UniProt Gene Name	Ip6k2
UniProt Synonym Gene Names	Ihpk2; InsP6 kinase 2; PiUS
NCBI Protein Information	inositol hexakisphosphate kinase 2
UniProt Comments for Ip6k2	Converts inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5). Converts 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4. Was first identified because of its ability to stimulate Na+-dependent phosphate cotransport ().
Research Articles on Ip6k2	**1.** IP6K2 is a major mediator of cancer cell migration and tumor metastasis, acting by enhancing cell-matrix adhesion and decreasing cell-cell adhesion.
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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