Mitogen-Activated Protein Kinase 6 (MAPK6) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitogen-activated protein kinase 6 (Mapk6), Recombinant Protein
Full Product Name	Recombinant Mouse Mitogen-activated protein kinase 6 (Mapk6)
Product Gene Name	Mapk6 recombinant protein
Product Synonym Gene Name	Mapk6
Sequence	MAEKFESLMN IHGFDLGSRY MDLKPLGCGG NGLVFSAVDN DCDKRVAIKK IVLTDPQSVK HALREIKIIR RLDHDNIVKV FEILGPSGSQ LTDDVGSLTE LNSVYIVQEY METDLANVLE QGPLLEEHAR LFMYQLLRGL KYIHSANVLH RDLKPANLFI NTEDLVLKIG DFGLARIMDP HYSHKGHLSE GLVTKWYRSP RLLLSPNNYT KAIDMWAAGC IFAEMLTGKT LFAGAHELEQ MQLILDSIPV VHEEDRQELL SVIPVYIRND MTEPHRPLTQ LLPGISREAL DFLEQILTFS PMDRLTAEEA LSHPYMSIYS FPTDEPISSH PFHIEDEVDD ILLMDETHSH IYNWERYHDC QFSEHDWPIH NNFDIDEVQL DPRALSDVTD EEEVQVDPRK YLDGDREKYL EDPAFDTSYS AEPCWQYPDH HENKYCDLEC SHTCNYKTRS SPYLDNLVWR ESEVNHYYEP KLIIDLSNWK EQSKEKSDKR GKSKCERNGL VKAQIALEEA SQQLAERERG QGFDFDSFIA GTIQLSAQHQ SADVVDKLND LNSSVSQLEL KSLISKSVSR EKQEKGRANL AQLGALYQSS WDSQFVSGGE ECFLISQFCC EVRKDEHAEK ENTYTSYLDK FFSRKEDSEM LETEPVEEGK RGERGREAGL LSGGGEFLLS KQLESIGTPQ FHSPVGSPLK SIQATLTPSA MKSSPQIPHK TYSSILKHLN
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	82,199 Da
Sequence Positions	1-720, 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 Q61532
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mapk6 recombinant protein	This protein is a member of the Ser Thr protein kinase family, and is most closely related to mitogen-activated protein kinases (MAP kinases). MAP kinases also known as extracellular signal-regulated kinases (ERKs), are activated through protein phosphorylation cascades and act as integration points for multiple biochemical signals. This kinase is localized in the nucleus, and has been reported to be activated in fibroblasts upon treatment with serum or phorbol esters.
Other Notes	Small volumes of Mapk6 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 Mapk6 purchase	MBS1349265 is a recombinant protein targeting Mapk6. Also known as Recombinant Mouse Mitogen-activated protein kinase 6 (Mapk6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mapk6. It may not necessarily be applicable to this product.

NCBI GI #	76573879
NCBI GeneID	50772
NCBI Accession #	NP_056621.4
UniProt Primary Accession #	Q61532
UniProt Secondary Accession #	Q497T9; Q6YKB0; Q7TT30; Q80XH5; Q922U4; Q9JLU6
UniProt Related Accession #	Q61532
GenBank Nucleotide #	NM_015806.5
NCBI Official Full Name	mitogen-activated protein kinase 6
NCBI Official Synonym Full Names	mitogen-activated protein kinase 6
NCBI Official Symbol	Mapk6
NCBI Official Synonym Symbols	Erk3; Mapk4; Prkm4; Prkm6; Mapk63; 2610021I23Rik; D130053K17Rik
UniProt Protein Name	Mitogen-activated protein kinase 6
UniProt Synonym Protein Names	Extracellular signal-regulated kinase 3; ERK-3
UniProt Gene Name	Mapk6
UniProt Synonym Gene Names	Erk3; Prkm4; Prkm6; MAP kinase 6; MAPK 6; ERK-3
NCBI Protein Information	mitogen-activated protein kinase 6
UniProt Comments for Mapk6	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle.
Research Articles on Mapk6	**1.** Results show that Cdo is important for full Abl kinase activity, and Abl is necessary for full activation of p38 MAPK, during myogenic differentiation.
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