

Mitogen-activated protein kinase 5 (MPK5) Recombinant Protein | MPK5 recombinant protein

Recombinant Oryza sativa subsp. japonica Mitogen-activated protein kinase 5 (MPK5)

CATALOG # AAA117332	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

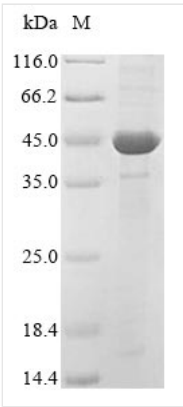
PRODUCT SYNONYMS

Mitogen-activated protein kinase 5 (MPK5); Recombinant Oryza sativa subsp. japonica Mitogen-activated protein kinase 5 (MPK5); MPK5 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-369aa; Full Length
Sequence	MDGAPVAEFR PTMTHGGRYL LYDIFGNKFE VTNKYQPPIM PIGRGAYGIV CSVMNFETRE MVAIKKIANA FNNDMDAKRT LREIKLLRHL DHENIIGIRD VIPPPIPQAF NDVYIATELM DTDLHHIIRS NQELSEEHQ YFLYQILRGL KYIHSANVIH RDLKPSNLLL NANCCLKICD FGLARPSSES DMMTEYVVTR WYRAPELLN STDYSAIDV WSVGCFMEL INRQPLFPGR DHMHQMLIT EVIGTPDDE LGFIRNEDAR KYMRHLPQYP RRTFASMFPR VQPAALDLIE RMLTFNPLQR ITVEEALDHP YLERLHDIAD EPICLEPFSF DFEQKALNED QMKQLIFNEA IEMNPNIRY
Sequence Length	369
Species	Oryza sativa subsp. japonica (Rice)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MPK5 recombinant protein	Involved in disease resistance and abiotic stress tolerance signaling pathways. Acts as a positive regulator of drought, salt and cold tolerance. Negatively modulates pathogenesis-related (PR) gene expression and broad-spectrum disease resistance. Functions downstream of CPK18 in a signaling pathway that represses defense gene expression and negatively regulates resistance to rice blast fungus. Phosphorylated by CPK18 at Thr-14 and Thr-32 and activated independently of MAP kinase kinase (MKK) phosphorylation
References	"Isolation of novel rice (<i>Oryza sativa</i> L.) multiple stress responsive MAP kinase gene, OsMSRMK2, whose mRNA accumulates rapidly in response to environmental cues." Agrawal G.K., Rakwal R., Iwahashi H. Biochem. Biophys. Res. Commun. 294:1009-1016(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	1002252539
NCBI GeneID	4332475
NCBI Accession #	XP_015630496.1
NCBI GenBank Nucleotide #	XM_015775010.1
UniProt Accession #	Q10N20; Q7FNE2; Q8GZZ3; Q8S3T6; Q9AXF2; Q9FQM3; Q9FSE6; B7EDC7
Molecular Weight	48.0 kDa
NCBI Official Full Name	mitogen-activated protein kinase 5 isoform X2
NCBI Official Symbol	LOC4332475
NCBI Official Synonym Symbols	MPK3; MPK5; BIMK1; MAPK2; MAPK5; OsMAP1; OsMPK3; msrmk2; OsBIMK1; OsMAPK2; OsMAPK5; OsMSRMK2
NCBI Protein Information	mitogen-activated protein kinase 5
UniProt Protein Name	Mitogen-activated protein kinase 5
UniProt Gene Name	MPK5
UniProt Synonym Gene Names	BIMK1; MAPK2; MAPK5; MPK3; MSRMK2; MAP kinase 5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.