

Recombinant Human Mitogen-Activated Protein Kinase 11, His-tagged

Cat. No. MAPK11-936H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPK11 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	MAPK11 (Mitogen-activated protein kinase 11) is a member of the MAP kinase family. This kinase is most closely related to p38 MAP kinases(MAPKs). MAPKs are activated primarily in response to inflammatory cytokines and cellular stress, and inhibitors which target the MAPK14 and MAPK11 have shown potential for the treatment of inflammatory disease. MAPK11 has been shown to interact with HDAC3 and Promyelocytic leukemia protein. This kinase involved in a signal transduction pathway that is activated by changes in the osmolarity of the extracellular environment, by cytokines, or by environmental stress.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl
Molecular Weight	43.8kDa (387aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	1mg/ml (determined by Bradford assay)

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Sequences of amino acids

MGSSHHHHHH SSSLVPRGSH MGSMSGPRAG FYRQELNKTW WEVPQRLQGL
 RPLVSGAYGS VCSAYDARLR QKVAVKKLSR PFQSLIHARR TYRELRLKHK
 LKHENVIGLL DVFTPATSIE DFSEVYLVTT LMGADLNNIV KCQALSDEHV
 QFLVYQLLRG LKYIHSAGII HRDLKPSNVA VNEDCELRIL DFGLARQADE
 EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL QGKALFPGSD
 YIDQLKRIME VVGTPSPEVL AKISSEHART YIQSLPPMPQ KDLSSIFRGA
 NPLAIDLLGR MLVLDSQQRV SAAEALAHAY FSQYHDPED PEAEPYDESV
 EAKERTLEEW KELTYQEVLS FKPPEPPKPP GSLEIEQ

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

ATF-2 transcription factor network; Activated TLR4 signalling; Activation of the AP-1 family of transcription factors; Amyotrophic lateral sclerosis (ALS); CD40/CD40L signaling; CDO in myogenesis; CXCR3-mediated signaling events; DSCAM interactions; Destabilization of mRNA by KSRP; ERK/MAPK targets; FAS (CD95) signaling pathway; Fc epsilon RI signaling pathway; GnRH signaling pathway; Hepatitis C; IL-4 signaling Pathway

GENE INFORMATION

Gene Name

MAPK11 mitogen-activated protein kinase 11 [Homo sapiens]

Official Symbol

MAPK11

Synonyms

MAPK11; P38B; SAPK2; p38-2; PRKM11; SAPK2B; p38Beta; P38BETA2; mitogen-activated protein kinase 11; MAPK 11; MAP kinase 11; OTTHUMP00000196653; OTTHUMP00000196655; MAP kinase p38 beta; stress-activated protein kinase 2; stress-activated protein kinase-2; stress-activated protein kinase-2b; mitogen-activated protein kinase p38-2; mitogen-activated protein kinase p38 beta; Mitogen-

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	activated protein kinase p38 beta; Stress-activated protein kinase 2; EC 2.7.11.24; EC 2.7.11; p38b
Gene ID	5600
mRNA Refseq	NM_002751
Protein Refseq	NP_002742
MIM	602898
UniProt ID	Q15759
Chromosome Location	22q13.33
Function	ATP binding; MAP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity

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