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)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMSGPRAG FYRQELNKTV WEVPQRLQGL RPVGSGAYGS VCSAYDARLR QKVAVKKLSR PFQSLIHARR TYRELRLLKH LKHENVIGLL DVFTPATSIE DFSEVYLVTT LMGADLNNIV KCQALSDEHV QFLVYQLLRG LKYIHSAGII HRDLKPSNVA VNEDCELRIL DFGLARQADE EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL QGKALFPGSD YIDQLKRIME VVGTPSPEVL AKISSEHART YIQSLPPMPQ KDLSSIFRGA NPLAIDLLGR MLVLDSDQRV SAAEALAHAY FSQYHDPEDE 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-

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA