Recombinant Human MAPK11, His-tagged

Cat. No. MAPK11-27606TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-364 of Human MAPK11, with an N-terminal His tag, 387aa, 43.8 kDa.
Species	Human
Source	E.coli
ProteinLength	364 amino acids
Description	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. This kinase is most closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and environmental stress. This kinase is activated through its phosphorylation by MAP kinase kinases (MKKs), preferably by MKK6. Transcription factor ATF2/CREB2 has been shown to be a substrate of this kinase.
Conjugation	HIS
Molecular Weight	43.800kDa inclusive of tags
Tissue specificity	Highest levels in the brain and heart. Also expressed in the placenta, lung, liver, skeletal muscle, kidney and pancreas.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.03% DTT, 20% Glycerol, 0.58% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGSMSGPRAGFYRQELNKTV WEVPQRLQGLRPV GSGAYGSVCSAYDARLRQKVAVKKLSR PFQSLIHARRTYRELRLLKHLKHENVIGLL DVFTPATSIE DFSEVYLVTTLMGADLNNIVKCQALSDEHVQFLVYQLLRG LKYIHSA GIIHRDLKPSNVAVNEDCELRILDFGLARQADE EMTGYVATRWYRAPEIMLNWMHY NQTVDIWSVGCIMAELL QGKALFPGSDYIDQLKRIMEVVGTPSPEVLAKISSEHART YIQSLPPMPQKDLSSIFRGANPLAIDLLGRMLVLDSDQRV SAAEALAHAYFSQYHDP EDEPEAEPYDESVEAKERTLEEW KELTYQEVLSFKPPEPPKPPGSLEIEQ
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAPK11 mitogen-activated protein kinase 11 [Homo sapiens]
Official Symbol	MAPK11
Synonyms	MAPK11; mitogen-activated protein kinase 11; PRKM11; p38 2; p38Beta; SAPK2;
Gene ID	5600

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mRNA Refseq	NM_002751
Protein Refseq	NP_002742
MIM	602898
Uniprot ID	Q15759
Chromosome Location	22q13.33
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	ATP binding; MAP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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