

Recombinant Human MAPK8, His-tagged

Cat. No. MAPK8-100H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPK8, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	MAPK8 also known as mitogen-activated protein kinase 8 JNK beta 2. MAPK8 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 is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli.
Form	Liquid. In Phosphate Buffer Saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	50.5kDa (450aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMRSKRDN NNFYSVEIGD STFTVLKRYQ NLKPIGSGAQ GIVCAAYDAI LERNVAIKKL SRPFQNTQTHA KRAYRELVLM KCVNHKNIIG LLNVFTQPKS LEEFQDVYIV MELMDANLCQ VIQMELDHER MSYLLYQMLC GIKHLHSAGI IHRDLKPSNI VVKSDCTLKI LDFGLARTAG TSFMMPYVY TRYRAPEVI LGMGYKENVD IWSVGCIMGE MIKGGVLFPG TDHIDQWNKV IEQLGTPCPE FMKKLQPTVR TYVENRPKYA GYSFEKLFPD VLFPADSEHN KLKASQARDL LSKMLVIDAS KRISVDEALQ HPYINVWYDP

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SEAEAPPPKI PDKQLDEREH TIEEWKELIY KEVMDLEERT KNGVIRGQPS
PLGAAVINGS QHPSSSSSVN DVSSMSTDPT LASDTDSSLE AAAGPLGCCR

Purity >85% by SDS - PAGE

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

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [MAPK8 mitogen-activated protein kinase 8 \[Homo sapiens \]](#)

Official Symbol MAPK8

Synonyms MAPK8; mitogen-activated protein kinase 8; PRKM8; JNK; JNK1; JUN N terminal kinase; SAPK1; MAP kinase 8; JUN N-terminal kinase; c-Jun N-terminal kinase 1; stress-activated protein kinase 1; stress-activated protein kinase 1c; mitogen-activated protein kinase 8 isoform JNK1 beta2; mitogen-activated protein kinase 8 isoform JNK1 alpha1; JNK-46; JNK1A2; SAPK1c; JNK21B1/2;

Gene ID [5599](#)

mRNA Refseq [NM_002750](#)

Protein Refseq [NP_002741](#)

MIM [601158](#)

UniProt ID [P45983](#)

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Chromosome Location	10q11
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Activation of BIM and translocation to mitochondria, organism-specific biosystem; Activation of BMF and translocation to mitochondria, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem;
Function	ATP binding; JUN kinase activity; MAP kinase activity; histone deacetylase binding; histone deacetylase regulator activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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