

# Recombinant Human Mitogen-Activated Protein Kinase 9, His-tagged

**Cat. No.** MAPK9-1349H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human MAPK9 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-382aa                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | MAPK9 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. MAPK9, when active as a dimer, can translocate to the nucleus and regulate transcription through its effects on c-Jun, ATF-2, and other transcription factors. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 46.6 kDa (406aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMSDSKC DSQFYSVQVA DSTFTVLKRY<br>QQLKPIGSGA QGIVCAAFDT VLGINVAVKK LSRPFQNQTH AKRAYRELV<br>LKCVNHKNII SLLNVFTPQK TLEEFQDVYL VMELMDANLC QVIHMELDHE                                                                                                                                                                                                                                                        |

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RMSYLLYQML CGIKHLHSAG IHRDLKPSN IVKSDCTLK ILDFGLARTA  
 CTNFMMPYV VTRYRRAPEV ILGMGYKENV DIWSVGCIMG ELVKGCVIFQ  
 GTDHIDQWNK VIEQLGTPSA EFMKKLQPTV RNYVENRPKY PGIKFEELFP  
 DWIFPSESER DKIKTSQARD LLSKMLVIDP DKRISVDEAL RHPYITVWYD  
 PAEAEAPPPQ IYDAQLEERE HAIEEWKELI YKEVMDWEER SKNGVVKDQP  
 SAQMQQ

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**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.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [MAPK9 mitogen-activated protein kinase 9 \[ Homo sapiens \]](#)

**Official Symbol** MAPK9

**Synonyms** MAPK9; mitogen-activated protein kinase 9; PRKM9; JNK2; Jun kinase; p54a; SAPK; MAPK 9; MAP kinase 9; c-Jun kinase 2; c-Jun N-terminal kinase 2; stress-activated protein kinase 1a; stress-activated protein kinase JNK2; JNK2A; JNK2B; JNK-55; SAPK1a; JNK2BETA; p54aSAPK; JNK2ALPHA;

**Gene ID** [5601](#)

**mRNA Refseq** [NM\\_001135044](#)

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_001128516                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 602896                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P45984                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 5q35                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | 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; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; CD40/CD40L signaling, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; JUN kinase activity; MAP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; transcription factor binding;                                                                                                                                                                                                                                                                       |

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