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**Product Data Sheet**


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Product Name: MAPK9 Human  
 Cat. No.: GP22559  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitogen-activated protein kinase 9; MAP kinase 9; MAPK 9; JNK-55; Stress-activated protein kinase 1a; SAPK1a; Stress-activated protein kinase JNK2; c-Jun N-terminal kinase 2; MAPK9; JNK2; PRKM9; SAPK; p54a; JNK2A; JNK2B; JNK2BETA; p54aSAPK; JNK2ALPHA.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSDSKC DSQFYSVQVA DSTFTVLKRY QQLKPIGSGA QGIVCAAFDT VLGINVAVKK LSRPFQNQTH AKRAYRELVL LKCVNHKNII SLLNVFTPQK TLEEFQDVYL VMELMDANLC QVIHMELDHE 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.		
Formulation	MAPK9 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

**Introduction**

Mitogen-activated protein kinase 9 (MAPK9) belongs to the MAP kinase family. MAP kinases function as an integration point for numerous biochemical signals, and are involved in a broad variety of cellular processes such as proliferation, differentiation, transcription regulation and development. MAPK9 targets specific transcription factors, and consequently mediates immediate-early gene expression in response to diverse cell stimuli. As an active dimer, MAPK9 can translocate to the nucleus and control transcription through its effects on c-Jun, ATF-2, and other transcription factors. MAPK9 blocks the ubiquitination of tumor suppressor p53, and so it increases the stability of

**Caution: Product has not been fully validated for medical applications. For research use only.**

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p53 in nonstressed cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MAPK9 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 406 amino acids (1-382 a.a) and having a molecular mass of 46.6kDa. MAPK9 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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