

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

Cat. No. MAPK9-1266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman full length MAPK9, His-tagged. Activated by coexpression with untaggedMAP2K7 and subsequently purified using Ni-NTA chromatography followed by ionexchange chromatography.
Species	Human
Source	Insect Cells
Description	MAPK9is an enzyme that in humans is encoded by the MAPK9 gene.The protein encodedby this gene is a member of the MAP kinase family. MAP kinases act as anintegration point for multiple biochemical signals, and are involved in awide variety of cellular processes such as proliferation, differentiation,transcription regulation and development.
Form	Liquid in50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mMDTT + 50% glycerol.
Molecular Weight	52.2 kDa
Purity	≥ 90% as determinedby SDS-PAGE analysis
Specific Activity	93 nmoleof phosphate transferred to ATF2 substrate per minute per mg of total proteinat 30°C. Activity determined at a final protein concentration of 3.33 µg/ml.

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Concentration	0.17mg/ml		
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		
OfficialSymbol	MAPK9		
nullValue_other	Function	ATP binding; JUN kinaseactivity; MAP kinase activity; nucleotide binding; protein binding; proteinserine/threonine kinase activity; transferase activity	
Full Length	Full L.		
GENE INFORMATION			
Gene Name	MAPK9mitogen-activated protein kinase 12 [Homosapiens]		
Synonyms	MAPK9;mitogen-activated protein kinase 9; JNK2;SAPK; p54a; JNK2A; JNK2B; PRKM9; JNK-55; JNK2BETA; p54aSAPK; JNK2ALPHA; Junkinase; MAP kinase 9; c-Jun kinase 2; OTTHUMP00000161542; OTTHUMP00000161543;c-Jun N-terminal kinase 2; stress-activated protein kinase JNK2;mitogen-activated protein kinase 9 isoform JNK2 alpha2; EC 2.7.11.24;Mitogen-activated protein kinase 9; Stress-activated protein kinase JNK2; OTTHUMP00000224159;OTTHUMP00000224168; OTTHUMP00000224169; OTTHUMP00000224170		
Gene ID	5601		
mRNA Refseq	NM_001135044		
Protein Refseq	NP_001128516		
MIM	602896		

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UniProt ID	P45984
Chromosome Location	5q35
Pathway	Adipocytokine signaling pathway; Colorectal cancer; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus; Wnt signaling pathway
Rendering based on PDB 3E7O.	

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