Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 9, GST-Tagged

Cat. No. MAP3K9-1040H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP3K9 (1-433) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-433 a.a.
Description	MAP3K9 or Mixed-Lineage Kinase 1 is a mitogen-activated protein kinase kinase kinase capable of activating the c-Jun NH(2)-terminal kinase (JNK) pathway. The catalytic domain of MAP3K9 has amino acid sequence similarity to both the tyr-specific and the ser/thr-specific kinase classes. In addition, MAP3K9 contain 2 leu/ile-zipper motifs and a basic sequence near its C-termini. MAP3K9 is threonine (and possibly serine) phosphorylated at multiple sites in the activation loop, with phosphorylation of Thr312 required for full activation.
Applications	Kinase Assay, Western Blot
Molecular Weight	77 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10mM

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	glutathione, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
Specific Activity	116 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	1-433
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Insulin Signaling; p38 MAPK Signaling Pathway

GENE INFORMATION

Gene Name	MAP3K9 mitogen-activated protein kinase kinase kinase 9 [Homo sapiens]
Official Symbol	MAP3K9
Synonyms	MAP3K9; MLK1; MEKK9; PRKE1; mitogen-activated protein kinase kinase kinase 9; EC 2.7.11.25; mixed lineage kinase 1 (tyr and ser/thr specificity); Mixed lineage kinase 1; EC 2.7.11
Gene ID	4293
mRNA Refseq	NM_033141
Protein Refseq	NP_149132

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MIM	600136
UniProt ID	P80192
Chromosome Location	14q24.3-q31
Function	ATP binding; JUN kinase kinase kinase activity; MAP kinase kinase activity; nucleotide binding; protein homo- dimerization activity; protein serine/threonine kinase activity; protein tyrosine kinase activity

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