

Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 1, GST-Tagged

Cat. No. MAP3K1-1037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP3K1 (900-1748) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	900-1748 a.a.
Description	MAP3K1 or MEK kinase, is a serine/threonine kinase that is downstream of mitogenic and metabolic stimuli, including insulin and many growth factors. MAP3K1 functions not only as an upstream activator of ERK and JNK through its kinase domain, but also as an E3 ligase through its PHD domain, providing a negative regulatory mechanism for decreasing ERK1/ERK2 activity by ubiquitination and degradation. MAP3K1 ^{-/-} embryonic stem cells from mice show loss or altered responses of JNK to microtubule disruption and cold stress.
Applications	Kinase Assay, Western Blot
Molecular Weight	155 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10mM

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	glutathione, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
Specific Activity	820 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	900-1748
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	Activated TLR4 signalling; Apoptosis; Apoptosis Modulation by HSP70; BCR signaling pathway; CD40/CD40L signaling; Ceramide signaling pathway; EGFR1 Signaling Pathway; ErbB1 downstream signaling; FAS (CD95) signaling pathway; FAS pathway and Stress induction of HSP regulation; Fc-epsilon receptor I signaling in mast cells; GnRH signaling pathway; IFN-gamma pathway; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway
GENE INFORMATION	
Gene Name	MAP3K1 mitogen-activated protein kinase kinase kinase 1 [Homo sapiens]
Official Symbol	MAP3K1
Synonyms	MAP3K1; MEKK; MEKK1; SRXY6; MAPKKK1; mitogen-activated protein kinase kinase kinase 1; MAPK/ERK kinase kinase 1; MEK kinase 1; MAP/ERK kinase kinase 1; EC 2.7.11.25

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Gene ID	4214
mRNA Refseq	NM_005921
Protein Refseq	NP_005912
MIM	600982
UniProt ID	Q13233
Chromosome Location	5q11.2
Function	ATP binding; JUN kinase binding; JUN kinase kinase activity; JUN kinase kinase activity; MAP kinase kinase kinase activity; identical protein binding; metal ion binding; mitogen-activated protein kinase binding; mitogen-activated protein kinase kinase binding; nucleotide binding; protein kinase activity; protein kinase activity; protein serine/threonine kinase activity