

# Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 10, GST-Tagged

Cat. No. MAP3K10-1038H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human MAP3K10 (1-446) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-446 a.a.
<b>Description</b>	MAP3K10 or mixed-lineage kinase 2 is a member of the serine/threonine kinase family, which activates MAPK8 JNK and MKK4/SEK1. MAP3K10 itself can be phosphorylated, and activated by JNK kinases. MAP3K10 is also known as mitogen-activated protein kinase kinase kinase 10 (MAP3K10). MAP3K10 functions preferentially on the JNK signaling pathway which is involved in nerve growth factor (NGF) induced neuronal apoptosis. MAP3K10 was isolated as a cDNA fragment from MKN28 gastric cancer cell library using degenerate PCR. MAP3K10 is highly expressed in brain, skeletal muscle, and testis.
<b>Applications</b>	Kinase Assay, Western Blot
<b>Molecular Weight</b>	76 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus.

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<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10mM glutathione, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
<b>Specific Activity</b>	948 nmol/min/mg
<b>Purity</b>	> 85 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	1-446
<b>Storage</b>	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.
<b>Pathways</b>	Insulin Signaling; p38 MAPK signaling pathwa

## GENE INFORMATION

<b>Gene Name</b>	MAP3K10 mitogen-activated protein kinase kinase kinase 10 [ Homo sapiens ]
<b>Official Symbol</b>	MAP3K10
<b>Synonyms</b>	MAP3K10; MST; MLK2; MEKK10; mitogen-activated protein kinase kinase kinase 10; Mixed lineage kinase 2; Protein kinase MST; EC 2.7.11.25; MKN28 derived nonreceptor_type serine/threonine kinase; MKN28 kinase; EC 2.7.11
<b>Gene ID</b>	4294
<b>mRNA Refseq</b>	NM_002446

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<b>Protein Refseq</b>	NP_002437
<b>MIM</b>	600137
<b>UniProt ID</b>	Q02779
<b>Chromosome Location</b>	19q13.2
<b>Function</b>	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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