

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

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

SPECIFICATION

Product Overview	Recombinant human MAP3K10 (1-446) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-446 a.a.
Description	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.
Applications	Kinase Assay, Western Blot
Molecular Weight	76 kDa
Expression System	Sf9 insect cells using baculovirus.

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Form	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.
Specific Activity	948 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	1-446
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 pathwa

GENE INFORMATION

Gene Name	MAP3K10 mitogen-activated protein kinase kinase kinase 10 [Homo sapiens]
Official Symbol	MAP3K10
Synonyms	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
Gene ID	4294
mRNA Refseq	NM_002446

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Protein Refseq	NP_002437
MIM	600137
UniProt ID	Q02779
Chromosome Location	19q13.2
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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