

Active Recombinant Human MAP2K4, His-tagged

Cat. No. MAP2K4-105H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MKK4, full length, amino acids M1-D399 (as in NCBI/Protein entry NP_003001.1), activated, N-terminal HIS6 fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells
Species	Human
Source	Sf9 Cells
ProteinLength	1-399 a.a.
Description	MAP2K4 encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. MAP2K4 is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK1. MAP2K4 is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver.
Form	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol
Bio-activity	41 pmol/ $\mu\text{g}\times\text{min}$
Storage	Store at -80°C. Avoid repeated freeze-thaw cycles!
Concentration	0.884 $\mu\text{g}/\mu\text{l}$

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Full Length

Full L.

GENE INFORMATION

Gene Name

MAP2K4 mitogen-activated protein kinase kinase 4 [Homo sapiens]

Official Symbol

MAP2K4

Synonyms

MAP2K4; mitogen-activated protein kinase kinase 4; SERK1; dual specificity mitogen-activated protein kinase kinase 4; JNKK1; MEK4; MKK4; PRKMK4; MEK 4; MAPKK 4; SAPK kinase 1; MAPK/ERK kinase 4; SAPK/ERK kinase 1; MAP kinase kinase 4; JNK-activated kinase 1; JNK activating kinase 1; JNK-activating kinase 1; c-Jun N-terminal kinase kinase 1; stress-activated protein kinase kinase 1; JNKK; SEK1; MAPKK4; SAPKK1; SAPKK-1;

Gene ID

6416

mRNA Refseq

NM_003010

Protein Refseq

NP_003001

MIM

601335

UniProt ID

P45985

Chromosome Location

17p12

Pathway

Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific biosystem; CD40/CD40L signaling, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Cellular roles of Anthrax toxin, organism-specific

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biosystem; Ceramide signaling pathway, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;

Function

ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity;

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