

Recombinant Human MAP2K6, His-tagged

Cat. No. MAP2K6-97H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP2K6, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	MAP2K6, also known as dual specificity mitogen-activated protein kinase kinase 6, is a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress-induced cell cycle arrest, transcription activation and apoptosis.
Form	Liquid. In phosphate buffered saline (pH7.4), 20% glycerol.
Molecular Mass	38.3kDa (340aa) confirmed by MALDI-TOF. 40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	MSQSKGKKRN PGLKIPKEAF EQPQTSSTPP RDLDSKACIS IGNQNFEVKA DDLEPIMELG RGAYGVVEKM RHVPSGQIMA VKRIRATVNS QEQKRLLMDL DISMRTVDCP FTVTFYGALF REGDVWICME LMDTSLDKFY KQVIDKGQTI

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PEDILGKIAV SIVKALEHLH SKLSVIHRDV KPSNVLINAL GQVKMCDFGI
SGYLVDSVAK TIDAGCKPYM APERINPELN QKGYSVKSDI WSLGITMIEL
AILRFPYDSW GTPFQQLKQV VEEPSPQLPA DKFSAEFVDF TSQCLKKNSK
ERPTYPELMQ HPFFTLHESK GTDVASFVKL ILGDHHHHHH

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>90% by SDS - PAGE.
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name	MAP2K6 mitogen-activated protein kinase kinase 6 [Homo sapiens]
Official Symbol	MAP2K6
Synonyms	MAP2K6; mitogen-activated protein kinase kinase 6; PRKMK6; dual specificity mitogen-activated protein kinase kinase 6; MAPKK6; MEK6; MKK6; protein kinase; mitogen activated; kinase 6 (MAP kinase kinase 6); SAPKK3; MEK 6; MAPKK 6; SAPK kinase 3; MAPK/ERK kinase 6; stress-activated protein kinase kinase 3; protein kinase, mitogen-activated, kinase 6 (MAP kinase kinase 6); SAPKK-3;
Gene ID	5608
mRNA Refseq	NM_002758
Protein Refseq	NP_002749

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MIM	601254
UniProt ID	P52564
Chromosome Location	17q
Pathway	Activated TLR4 signalling, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CDC42 signaling events, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; CXCR3-mediated signaling events, organism-specific biosystem; Cellular roles of Anthrax toxin, organism-specific biosystem;
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein kinase binding; protein serine/threonine kinase activity; protein tyrosine kinase activity;

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