

# Active Recombinant Full Length Human MAP2K6 Protein, C-Flag-tagged

**Cat. No.** MAP2K6-440HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human MAP2K6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	This gene encodes 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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Bio-activity</b>	In vitro kinase assay substrate
<b>Molecular Mass</b>	37.3 kDa
<b>AA Sequence</b>	MSQSKGKKRNPGLKIPKEAFEQPQTSSTPPRDLDKACISIGNQNFEVKADDLEPIM ELGRGAYGVVEKM RHVPSGQIMAVKRIRATVNSQEQKRLMLDLDISMRTVDCPFTV

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TFYGALFREGDVWICMELMDTSLDKFY KQVIDKGQTIPEDILGKIAVSIVKALEHLHS  
 KLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAK TIDAGCKPYMAPERINPEL  
 NQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSPQLPA  
 DKFSAEFVDFTSQCLKKNKERPTYPELMQHPPFTLHESKGTDVASFVKLILGDTRT  
 RPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

**Preparation** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Families** Druggable Genome, Protein Kinase

**Protein Pathways** Amyotrophic lateral sclerosis (ALS), Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** [MAP2K6 mitogen-activated protein kinase kinase 6 \[ Homo sapiens \(human\) \]](#)

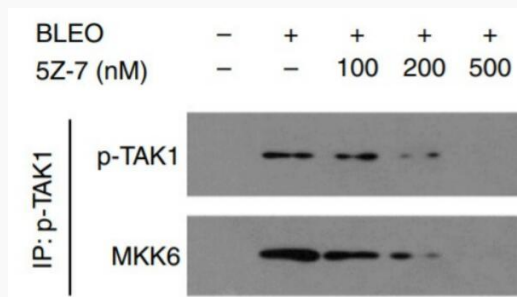
**Official Symbol** [MAP2K6](#)

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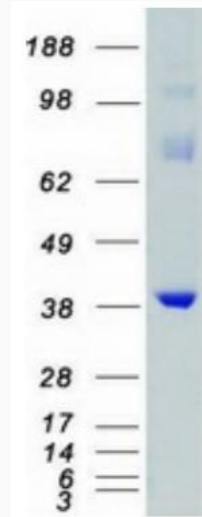
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<b>Synonyms</b>	MEK6; MKK6; MAPKK6; PRKMK6; SAPKK3; SAPKK-3
<b>Gene ID</b>	5608
<b>mRNA Refseq</b>	NM_002758.4
<b>Protein Refseq</b>	NP_002749.2
<b>MIM</b>	601254
<b>UniProt ID</b>	P52564



DNA damage activates TAK1. PSC27 cells were treated with bleomycin, an inducer of DNA strand breaks, with or without increasing concentrations of the TAK1 inhibitor 5Z-7. Cell lysates were immunoprecipitated with an anti-p-TAK1 antibody and subjected to the *in vitro* kinase assay with MKK6 as a substrate and radio-labeled ATP. Resulting samples were separated on a 12% SDS-PAGE gel and visualized with autoradiography.



Coomassie blue staining of purified MAP2K6 protein.

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