

Active Recombinant Human MAP2K6, GST-tagged

Cat. No. MAP2K6-176H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	N-terminal GST-tagged full-length protein. MKK6 is one of the major specific activators of p38. MAP kinase kinases (MAPKKs) MKK3 and MKK6 are the primary regulators of p38 phosphorylation and activation. The MKK6/p38 pathway is well documented in the regulation of apoptosis. The p38 mitogen-activated protein (MAP) kinase signal transduction pathway regulates the production of interleukin-1 and tumor necrosis factor-alpha. The recombinant human MKK6 was expressed in <i>E. coli</i> and purified by glutathione sepharose chromatography. It is suitable for labeling MKK6 substrates. The highly active form is produced by two amino acid exchanges (S151E, T155E). The sequence based calculated molecular weight is 63.64 kDa.
Form	Supplied in 50 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1 mM EGTA, 1 mM DTT and 270 mM sucrose.
Purity	> 95% by SDS-PAGE.
Activity	> 50,000 U/mg (1 Unit is defined as the amount of MKK6 which activates inactive p38α/SAPK2α (0.5 mg/ml) by 1 U/min using 125 μM ATP at 30 °C. 1 U p38α/SAPK2α activity is defined as 1 picomole phosphate transferred to myelin basic protein per min at 30 °C).

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Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	MAP2K6 mitogen-activated protein kinase kinase 6 [Homo sapiens]
Synonyms	MAP2K6; mitogen-activated protein kinase kinase 6; MEK6; MKK6; MAPKK6; PRKMK6; SAPKK3; protein kinase, mitogen-activated, kinase 6 (MAP kinase kinase 6); EC 2.7.12.2; Dual specificity mitogen-activated protein kinase kinase 6; MAP kinase kinase 6; MAPK/ERK kinase 6
Gene ID	5608
mRNA Refseq	NM_002758
Protein Refseq	NP_002749
MIM	601254
UniProt ID	P52564
Chromosome Location	17q
Pathway	Amyotrophic lateral sclerosis (ALS); Fc epsilon RI signaling pathway; GnRH signaling pathway; MAPK signaling pathway; Toll-like receptor signaling pathway
Function	ATP binding; MAP kinase kinase ; activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity

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