

# Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 5, GST-tagged

Cat. No. MAP3K5-1260H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAP3K5 with N-terminal GST tag. MAP3K5 is a serine/threonine kinase that is abundantly expressed in human heart and pancreas.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The MAP3K5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAP3K5 does not activate MAPK/ERK.
<b>Form</b>	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
<b>Molecular Weight</b>	182 kDa
<b>Specific Activity</b>	64 nmole of phosphate transferred to myelin basic protein (MBP) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 µg/ml.
<b>Concentration</b>	0.25 mg/ml
<b>Storage</b>	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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<b>OfficialSymbol</b>	MAP3K5
<b>nullValue_other</b>	Function MAP kinase kinasekinase activity; metal ion binding; protein kinase activity; nucleotidebinding; protein serine/tyreonine kinase activity; protein phosphatase binding; protein homodimerization activity; protein binding; magnesium ion binding; cysteine-typeendopeptidase activator activity involved in apoptotic process
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MAP3K5 mitogen-activated proteinkinase kinase 5 [ Homo sapiens ]
<b>Synonyms</b>	MAP3K5; mitogen-activatedprotein kinase kinase 5; MEKK5; MAPKKK5; ASK1; apoptosissignal regulating kinase 1; OTTHUMP00000017275; EC 2.7.11.25; ASK-1; MEKkinase 5; MAPK/ERK kinase kinase 5; MAP/ERK kinase kinase 5; apoptosis signal-regulatingkinase 1
<b>Gene ID</b>	4217
<b>mRNA Refseq</b>	NM_005923
<b>Protein Refseq</b>	NP_005914
<b>MIM</b>	602448
<b>UniProt ID</b>	Q99683
<b>Chromosome Location</b>	6q22.33
<b>Pathway</b>	p38 MAPK signalingpathway; Protein processing in endoplasmic reticulum; Class I PI3K signalingevents mediated by Akt; Amyotrophic lateral sclerosis (ALS); HTLV-

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infection; IL1-mediated signaling events; Neurotrophin signaling pathway; Insulin Signaling; TNF receptor signaling pathway; MAPK Cascade; MAPK signaling pathway; TNF-alpha/NF-kB Signaling Pathway; Trk receptor signaling mediated by the MAPK pathway

**PDB rendering  
based on 2clq.**

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