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

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

SPECIFICATION

Product Overview	RecombinantHuman MAP3K5 with N-terminal GST tag. MAP3K5 is a serine/threonine kinasethat is abundantly expressed in human heart and pancreas.
Species	Human
Source	Insect Cells
Description	The MAP3K5protein 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 notactivate MAPK/ERK.
Form	Liquid in50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mMDTT + 50% glycerol.
Molecular Weight	182 kDa
Specific Activity	64 nmoleof phosphate transferred to myelin basic protein (MBP) per minute per mg of totalprotein at 30°C. Activity determined at a final protein concentration of 8.33µg/ml.
Concentration	0.25mg/ml
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	MAP3K5	
nullValue_other	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

GENE INFORMATION

Gene Name	MAP3K5 mitogen-activated proteinkinase kinase kinase 5 [Homo sapiens]
Synonyms	MAP3K5; mitogen-activatedprotein kinase 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
Gene ID	4217
mRNA Refseq	NM_005923
Protein Refseq	NP_005914
MIM	602448
UniProt ID	Q99683
Chromosome Location	6q22.33
Pathway	p38 MAPK signalingpathway; Protein processing in endoplasmic reticulum; Class I PI3K signalingevents mediated by Akt; Amyotrophic lateral sclerosis (ALS); HTLV-

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	Iinfection;IL1-mediatedsignaling events; Neurotrophin signaling pathway; InsulinSignaling; TNFreceptor signaling pathway; MAPK Cascade; MAPK signaling pathway; TNF-alpha/NF-kBSignaling Pathway; Trk receptor signaling mediated by the MAPK pathway
PDB rendering basedon 2clq.	

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