

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

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

SPECIFICATION

Product Overview	Recombinant Human MAP3K5 with N-terminal GST tag. MAP3K5 is a serine/threonine kinase that is abundantly expressed in human heart and pancreas.
Species	Human
Source	Insect Cells
Description	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.
Form	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.
Molecular Weight	182 kDa
Specific Activity	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.
Concentration	0.25 mg/ml
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 5 [Homo sapiens]
Synonyms	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
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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

linfection;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.**

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA