

Recombinant Human mitogen activated protein kinase kinase kinase 5 Protein, His tagged

Cat. No. MAP3K5-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAP3K5 Protein with His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	1011-1196 aa
Description	Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 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; MAPKKK5 does not activate MAPK/ERK.
Tag	C-His
Molecular Mass	22 kDa

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AA Sequence	MKGIRTLFLGIPDENFEDHSAPPSPEEKDSGFFMLRKDSERRATLHRILTEDQDKIVR NLMESLAQGAEPEPKLKWEHITTLIASLREFVRSTDRKIIATTL SKLKLDFD SHGISQ VQVVLFGFQDAVNKVLNRNHNKPHWMFALDSIIRKAVQTAITILVPELRPHFSLASESD TADQEDLDVEDHHHHHHHHH
Endotoxin	< 1 EU/μg
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	1 mg/mL by BCA

GENE INFORMATION

Gene Name	MAP3K5 mitogen-activated protein kinase kinase kinase 5 [Homo sapiens (human)]
Official Symbol	MAP3K5
Synonyms	MAP3K5; mitogen-activated protein kinase kinase kinase 5; MEKK5; apoptosis signal regulating kinase 1; ASK1; MAPKKK5; ASK-1; MEKK 5; MEK kinase 5; MAP/ERK kinase kinase 5; MAPK/ERK kinase kinase 5; apoptosis signal-regulating kinase 1
Gene ID	4217
mRNA Refseq	NM_005923
Protein Refseq	NP_005914

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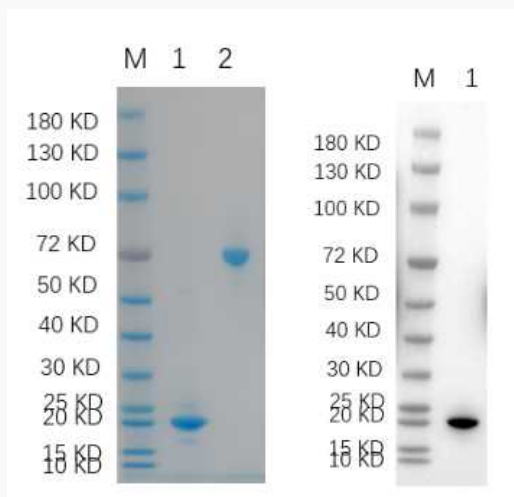
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MIM 602448

UniProt ID Q99683

**Reducing 4%-20%
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
Antibody) analysis
profiles of purified
MAP3K5.**



1. MAP3K5: 1 μ g
2. BSA: 1 μ g

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