Recombinant Human Mitogen-Activated Protein Kinase-Activated Protein Kinase 3, His-tagged

Cat. No. MAPKAPK3-1268H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length MAPKAPK3, His-tagged.
Species	Human
Source	Insect Cells
Description	MAPKAPK3 encodes a member of the Ser/Thr proteinkinase family. This kinase functions as a mitogen-activated protein kinase(MAP kinase)- activated protein kinase. MAPKAPK3 are also known as extracellular signal-regulated kinases (ERKs), actas an integration point for multiple biochemical signals. This kinase wasshown to be activated by growth inducers and stress stimulation of cells. Invitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinasewere all able to phosphorylate and activate this kinase, which suggested therole of this kinase as an integrative element of signaling in both mitogenand stress responses. This kinase was reported to interact with,phosphorylate and repress the activity of E47, which is a basichelix-loop-helix transcription factor known to be involved in the regulationof tissue-specific gene expression and cell differentiation.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.05 mM EDTA + 0.05% Triton X-100 + 2 mM DTT +50% glycerol
Molecular Weight	47.3 kDa
Concentration	0.42 mg/ml

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Purity	≥ 90% as determinedby SDS-PAGE analysis
Specific Activity	660 nmole ofphosphate transferred to MAPKAPK2 substrate peptide (KKLNRTLSVA) per minuteper mg of total protein at 30°C. Activity determined at a final proteinconcentration of 1.67 g/ml.
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	MAPKAPK3
Full Length	Full L.

GENE INFORMATION

Gene Name	MAPKAPK3 mitogen-activatedprotein kinase-activated protein kinase 3 [Homo sapiens]
Synonyms	MAPKAPK3;mitogen-activated protein kinase-activated protein kinase 3; 3PK; MAPKAP3;MAPKAPK-3; MAP kinase-activated protein kinase 3; MAPKAP kinase 3;OTTHUMP00000210805; OTTHUMP00000210806; OTTHUMP00000210807; chromosome 3pkinase; MAPK-activated protein kinase 3; EC 2.7.11.1; EC 2.7.11
Gene ID	7867
mRNA Refseq	NM_004635
Protein Refseq	NP_004626
MIM	602130
UniProt ID	Q16644

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Chromosome Location	3p21.3
Pathway	Activated TLR4signalling; FAS pathway and Stress induction of HSP regulation; ImmuneSystem; Innate Immune System; MAP kinase activation in TLR cascade; MAPKsignaling pathway; MyD88 cascade initiated on plasma membrane; MyD88dependent cascade initiated on endosome; NFkB and MAP kinases activationmediated by TLR4 signaling repertoire; Signal Transduction; Signalling toERKs; TRAF6 Mediated Induction of proinflammatory cytokines; TRIF mediatedTLR3 signaling; Toll Like Receptor TLR6; VEGF signaling pathway; p38MAPKevents
Function	ATP binding; MAPkinase kinase activity; nucleotide binding; protein binding; proteinserine/threonine kinase activity
Rendering based onPDB 3FHR.	

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