Recombinant Human mitogen-activated protein kinase-activated protein kinase 3, His-tagged

Cat. No. MAPKAPK3-366H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPKAPK3, 1-382aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-382 a.a.
Description	MAP kinase-activated protein kinase 3, also known as MAPKAPK3, is involved in inflammatory response by regulating tumor necrosis factor (TNF) and IL6 production post-transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding proteins, such as TTP/ZFP36, leading to regulate the stability and translation of TNF and IL6 mRNAs. Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF, promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity leading to inhibition of dependent degradation of ARE-containing transcript. Recombinant human MAPKAPK3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	45.4 kDa (405aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDGETAE EQGGPVPPPV APGGPGLGGA

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	PGGRREPKKY AVTDDYQLSK QVLGLGVNGK VLECFHRRTG QKCALKLLYD SPKARQEVDH HWQASGGPHI VCILDVYENM HHGKRCLLII MECMEGGELF SRIQERGDQA FTEREAAEIM RDIGTAIQFL HSHNIAHRDV KPENLLYTSK EKDAVLKLTD FGFAKETTQN ALQTPCYTPY YVAPEVLGPE KYDKSCDMWS LGVIMYILLC GFPPFYSNTG QAISPGMKRR IRLGQYGFPN PEWSEVSEDA KQLIRLLLKT DPTERLTITQ FMNHPWINQS MVVPQTPLHT ARVLQEDKDH WDEVKEEMTS ALATMRVDYD QVKIKDLKTS NNRLLNKRRK KQAGSSSASQ GCNNQ
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [Homo sapiens]
Official Symbol	MAPKAPK3
Synonyms	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; MAP kinase-activated protein kinase 3; 3pK; 3PK; MAPKAP3; MAPKAP kinase 3; chromosome 3p kinase; MAPK-activated protein kinase 3; MK-3; MAPKAP-K3; MAPKAPK-3;
Gene ID	7867
mRNA Refseq	NM_001243925

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Protein Refseq	NP_001230854
MIM	602130
UniProt ID	Q16644
Chromosome Location	3p21.3
Pathway	Activated TLR4 signalling, organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MAP kinase activation in TLR cascade, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem;
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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