

Recombinant Human MAPKAPK3

Cat. No. MAPKAPK3-735H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPKAPK3, full length, amino acids M1-Q382, untagged, was expressed in <i>E.coli</i> . MW = 43,324 Da.
Species	Human
Source	<i>E.coli</i>
Protein Length	1-382 a.a.
Description	MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses.
Purification	GST-Affinity Chromatography followed by cleavage of GST-tag.
Product Identity	MAPKAPK3 was confirmed as MAPKAPK3 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Activation	with MKK6 SDTD and p38-alpha.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol.

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Concentration	0.210 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	188 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.
GENE INFORMATION	
Gene Name	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [Homo sapiens]
Synonyms	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; 3PK; MAPKAP3; MAPKAP kinase 3; OTTHUMP00000210806; EC 2.7.11.1; MAPK-activated protein kinase 3; Chromosome 3p kinase
Gene ID	7867
mRNA Refseq	NM_004635
Protein Refseq	NP_004626
MIM	602130
UniProt ID	Q16644
Chromosome Location	3p21.3
Pathway	MAPK signaling pathway; VEGF signaling pathway; Signalling by NG

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Function

ATP binding; MAP kinase kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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