

## Recombinant Human MAPKAPK3

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAPKAPK3, full length, amino acids M1-Q382, untagged, was expressed in <i>E.coli</i> . MW = 43,324 Da.
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Protein Length</b>	1-382 a.a.
<b>Description</b>	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.
<b>Purification</b>	GST-Affinity Chromatography followed by cleavage of GST-tag.
<b>Product Identity</b>	MAPKAPK3 was confirmed as MAPKAPK3 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
<b>Activation</b>	with MKK6 SDTD and p38-alpha.
<b>Storage Buffer</b>	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol.

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