

Recombinant Human MAPKAPK5

Cat. No. MAPKAPK5-736H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPKAPK5, full length, amino acids M1-Q471, activated, untagged, was expressed in <i>E.coli</i> . MW = 54,161 Da.
Species	Human
Source	<i>E.coli</i>
Protein Length	1-471 a.a.
Description	MAP kinase-activated protein kinase 5 is an enzyme that in humans is encoded by the MAPKAPK5 gene. The protein encoded by this gene is a member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. In vitro, this kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites.
Purification	Immobilized Metal Affinity Chromatography.
Product Identity	MAPKAPK5 was confirmed as MAPKAPK5 by mass spectroscopy LC-ESI-MS/MS.
Activation	with MKK6-SDTD / p38-alpha.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol.
Concentration	0.772 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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	standard protein).
Specific Activity	11 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.

GENE INFORMATION

Gene Name	MAPKAPK5 mitogen-activated protein kinase-activated protein kinase 5 [Homo sapiens]
Synonyms	MAPKAPK5; mitogen-activated protein kinase-activated protein kinase 5; PRAK; MAP kinase-activated protein kinase 5; MAPKAPK-5; MAPKAP kinase 5; MAPK-activated protein kinase 5; p38-regulated/activated protein kinase; EC 2.7.11.1
Gene ID	8550
mRNA Refseq	NM_003668
Protein Refseq	NP_003659
MIM	606723
UniProt ID	Q8IW41
Chromosome Location	12q24.12-q24.13
Pathway	MAPK signaling pathway

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Function

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

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