

Recombinant Human Mitogen-Activated Protein Kinase-Activated Protein Kinase 5, His-tagged

Cat. No. MAPKAPK5-1888H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length MAPKAPK5, His-tagged.
Species	Human
Source	Insect Cells
Description	MAPKAPK5 is anenzyme that in humans is encoded by the MAPKAPK5 gene. The protein encoded bythis gene is a member of the serine/threonine kinase family. In response tocellular stress and proinflammatory cytokines, this kinase is activatedthrough its phosphorylation by MAP kinases including MAPK1/ERK,MAPK14/p38-alpha, and MAPK11/p38-beta. In vitro, this kinase phosphorylatesheat shock protein HSP27 at its physiologically relevant sites. Twoalternately spliced transcript variants of this gene encoding distinctisoforms have been reported.
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	58.3 kDa
Concentration	0.45 mg/ml
Specific Activity	220 nmole ofphosphate transferred to PRAK substrate peptide (KKLRRTLSVA) per minute permg of total protein at 30°C. Activity determined at a final

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proteinconcentration of 3.33 µg/ml.

Storage Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

OfficialSymbol MAPKAPK5

Full Length Full L.

GENE INFORMATION

Gene Name MAPKAPK5 mitogen-activatedprotein kinase-activated protein kinase 5 [Homo sapiens]

Synonyms MAPKAPK5;mitogen-activated protein kinase-activated protein kinase 5; PRAK; MAPkinase-activated protein kinase 5; MAPKAPK-5; MAPKAP kinase 5;OTTHUMP00000241666; OTTHUMP00000241669; MAPK-activated protein kinase 5;p38-regulated/activated protein kinase; EC 2.7.11.1; EC 2.7.11

Gene ID 8550

mRNA Refseq NM_003668

Protein Refseq NP_003659

MIM 606723

UniProt ID Q8IW41

Chromosome Location 12q24.13

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Pathway	MAPK signalingpathway; Signaling mediated by p38-alpha and p38-beta; p38 MAPK SignalingPathway
Function	ATP binding; MAPkinase kinase activity; nucleotide binding; protein binding; proteinserine/threonine kinase activity

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