

Recombinant Human Mitogen-activated Protein Kinase-Activated Protein Kinase 5, GST-tagged

Cat. No. MAPKAPK5-1056H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPKAPK5 was expressed by baculovirus in Sf9 insect cells.
Species	Human
Source	Sf9 Cells
Description	MAPKAPK5 is a member of the serine/threonine kinase family that responds to cellular stress and proinflammatory cytokines. MAPKAPK5 is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta (1). MAPKAPK5 is activated in HeLa cells in response to cellular stress and proinflammatory cytokines. MAPKAPK5 activity is regulated by p38-alpha and p38-beta both in vitro and in vivo, and thr-182 is the regulatory phosphorylation site of MAPKAPK5 (2). In vitro, MAPKAPK5 kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites.
Applications	Kinase Assay; Western Blot
Molecular Weight	79 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Specific Activity	172 nmol/min/mg
Purity	> 80%
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	MAPK signaling pathway

GENE INFORMATION

Gene Name	MAPKAPK5 mitogen-activated protein kinase-activated protein kinase 5 [Homo sapiens]
Official Symbol	MAPKAPK5
Synonyms	MAPKAPK5; mitogen-activated protein kinase-activated protein kinase 5; MAP kinase-activated protein kinase 5; MAPK-activated protein kinase 5; MAPKAP kinase 5; MAPKAPK-5; p38-regulated/activated protein kinase; PRAK; EC 2.7.11.1
Gene ID	8550
mRNA Refseq	NM_003668
Protein Refseq	NP_003659

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MIM	606723
UniProt ID	Q8IW41
Chromosome Location	12q24.12-q24.13
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity

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