

Recombinant Human MAPKAPK5, GST-His

Cat. No. MAPKAPK3-695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant, human MAPKAPK5 is fused at the N-terminus to a GST-His 6-thrombin cleavage site tag and expressed in <i>S. frugiperda</i> insect cells using a baculovirus expression system. MAPKAPK5 is a member of the serine/threonine kinase family that mediates stress-induced small heat shock protein 27 phosphorylation.
Species	Human
Source	<i>S. frugiperda</i>
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. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported.
Form	Liquid.
Formulation	In 100 mM NaCl, 50 mM Tris-HCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol, pH 8.0.
Molar Mass	84116 Da.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specific Activity	≥2 U/mg protein.
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 nmol phosphate to tetra(LRRWSLG) per min at 30°C using concentration of 0.1 μM ATP.
Purity	≥90% by SDS-PAGE.
Storage	≤ -70oC. Ship: Dry Ice Only.

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; 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
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

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