

## 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 *S. frugiperda* 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** *S. frugiperda*

**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.

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<b>Specific Activity</b>	≥2 U/mg protein.
<b>Unit Definition</b>	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.
<b>Purity</b>	≥90% by SDS-PAGE.
<b>Storage</b>	≤ -70oC. Ship: Dry Ice Only.

## GENE INFORMATION

<b>Gene Name</b>	MAPKAPK5 mitogen-activated protein kinase-activated protein kinase 5 [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	8550
<b>mRNA Refseq</b>	NM_003668
<b>Protein Refseq</b>	NP_003659
<b>MIM</b>	606723
<b>UniProt ID</b>	Q8IW41
<b>Chromosome Location</b>	12q24.12-q24.13
<b>Pathway</b>	MAPK signaling pathway

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**Function**

ATP binding; MAP kinase kinase activity; nucleotide binding; protein

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