

## Recombinant Human Mitogen-activated Protein Kinase-Activated Protein Kinase 3, GST-tagged

**Cat. No.** MAPKAPK3-1055H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human MAPKAPK3 was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	MAPKAPK3 is closely related to MAPKAPK2 sharing 72% nucleotide and 75% amino acid identity. MAPKAPK3 is activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of MAPKAPK3 as an integrative element of signaling in both mitogen and stress responses.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	69 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
<b>Purity</b>	> 90%

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<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	Activated TLR4 signalling; FAS pathway and Stress induction of HSP regulation; Immune System; MAP kinase activation in TLR cascade; MAPK signaling pathway; MyD88 cascade initiated on plasma membrane; MyD88 dependent cascade initiated on endosom; MyD88:Mal cascade initiated on plasma membrane; NFkB and MAP kinases activation mediated by TLR4 signaling repertoire; NGF signalling via TRKA from the plasma membrane; Signaling mediated by p38-alpha and p38-beta; Signalling by NGF
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [ Homo sapiens ]
<b>Official Symbol</b>	MAPKAPK3
<b>Synonyms</b>	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; 3PK; MAPKAP3; MAPKAPK-3; MAP kinase-activated protein kinase 3; MAPKAP kinase 3; OTTHUMP00000210805; OTTHUMP00000210806; OTTHUMP00000210807; chromosome 3p kinase; MAPK-activated protein kinase 3; EC 2.7.11.1
<b>Gene ID</b>	7867
<b>mRNA Refseq</b>	NM_004635

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**Protein Refseq** NP\_004626

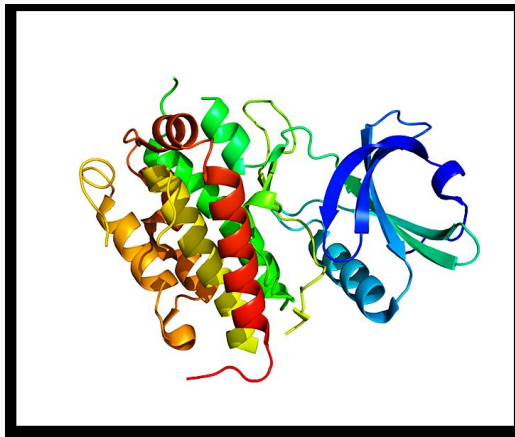
**MIM** 602130

**UniProt ID** Q16644

**Chromosome Location** 3p21.3

**Function** ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity

Rendering based on  
PDB 3FHR.



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