Active Recombinant Human Mitogen-activated Protein Kinase-activated Protein Kinase 3, GST-tagged

Cat. No. MAPKAPK3-840H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MAPKAPK3 (NM_004635) full-length recombinant protein with GST tag expressed in SF9 cells.
Species	Human
Source	Human
Description	MAP kinase-activated protein kinase 3 is an enzyme that in humans is encoded by the MAPKAPK3 gene. This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)-activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells.
Theoretical MW (kDa)	69
Preparation Method	Insect cell (SF9) expression system.
Purity	μ 90% by densitometry
Activity	The specific activity was determined to be 636 nmol/min/mg as per Activity Assay Protocol.

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Application	SDS-PAGE; Functional Study
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	Q16644
Pathways	MAPK signaling pathway; VEGF signaling pathway; Signalling by NG
Functions	ATP binding; MAP kinase kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity

GENE INFORMATION

Gene Name	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [Homo sapiens]
Official Symbol	MAPKAPK3
Synonyms	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; 3PK; MAPKAP3; MAPKAP kinase 3; OTTHUMP00000210806; EC 2.7.11.1; MAPK-activated protein kinase 3; Chromosome 3p kinase
Gene ID	7867
mRNA Refseq	NM_004635
Protein Refseq	NP_004626

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MIM	602130
Chromosome Location	3p21.3

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