

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

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

SPECIFICATION

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| 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

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| 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 |
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| Chromosome Location | 3p21.3 |
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