MEK3 (MAP2K3) Recombinant Protein | MEK3 recombinant protein

MEK3 (MAP2K3), Active

CATALOG #	HOST	APPLICATIONS
AAA73650	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

MEK3 (MAP2K3); Active; MAP2K3; MKK3; MAPKK3; PRKMK3; SKK2; MEK3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for MEK3 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MEK3 recombinant protein	Recombinant full-length human MEK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_002756. Mitogen-acitvated protein kinase kinase 3 (MEK3) is a serine/threonine kinase that is involved in the activation of MAP kinases. MEK3 is a dual-specificity protein kinase that phosphorylates p38 MAP kinase at its activation site Thr-Gly-Tyr and this stimulates the ability of p38 MAPK to phosphorylate protein substrates such as ATF-2 and Elk-1. MEK3 is activated by different forms of cellular stress and inflammatory cytokines. MEK3-null mice are viable and fertile, but their macrophages and dendritic cells are defective in IL-12 production (1). A virulence factor from Yersinia pseudotuberculosis, YopJ, was found to bind directly to MEK3 in vitro and this leads to blockage of its phosphorylation and activation (2).
Product Categories/Family for MEK3 recombinant protein	Protein Kinases; Angiogenesis; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; ERK/MAPK Pathway; Invasion/Metastasis; Neurobiology; Ser/Thr Kinases

References	1. Lu, H.-T. et al: Defective IL-12 production in mitogen-activated protein (MAP) kinase kinase 3 (MEK3)-deficient mice. EMBO J. 18: 1845-1857, 1999. 2. Orth, K. et al: Inhibition of the mitogen-activated protein kinase kinase superfamily by a Yersinia effector. Science 285: 1920-1923, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_002756
Molecular Weight	62kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/mek3-map2k3-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73650