

MLK1 recombinant protein

MLK1, Active

CATALOG # AAA73663	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

MLK1; Active; MAP3K9; MEKK9; PRKE1; MLK1 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 MLK1 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 MLK1 recombinant protein	Recombinant human MLK1 (1-433) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The MLK1 gene accession number is NM_033141. MLK1 or Mixed-Lineage Kinase 1 is a mitogen-activated protein kinase kinase kinase capable of activating the c-Jun NH(2)-terminal kinase (JNK) pathway. The catalytic domain of MLK1 has amino acid sequence similarity to both the tyr-specific and the ser/thr-specific kinase classes. In addition, MLK1 contain 2 leu/ile-zipper motifs and a basic sequence near its C-termini (1). MLK1 is threonine (and possibly serine) phosphorylated at multiple sites in the activation loop, with phosphorylation of Thr312 required for full activation (2).
Product Categories/Family for MLK1 recombinant protein	Protein Kinases ; Apoptosis/Autophagy ; Cell Cycle ; JNK/SAPK Pathway ; Ser/Thr Kinases
References	1. Dorow, D S. et al: Identification of a new family of human epithelial protein kinases containing two leucine/isoleucine-zipper domains. Europ. J. Biochem. 213: 701-710, 1993. 2. Durkin, J T. et al: Phosphoregulation of mixed-lineage kinase 1 activity by multiple phosphorylation in the activation loop. Biochemistry. 2004 Dec 28;43(51):16348-55.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_033141
Molecular Weight	~77kDa

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/mlk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73663>