MELK recombinant protein

MELK, Active

CATALOG #	HOST	APPLICATIONS
AAA73687	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

MELK; Active; HPK38; KIAA0175; MELK 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 MELK 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 MELK recombinant protein	Recombinant human MELK (1-550) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_014791. MELK or maternal embryonic leucine zipper kinase is a member of the CAMKL kinase family. MELK is a key regulator of the proliferation of malignant brain tumors including their stem cells (1). MELK transcript abundance correlates with malignancy grade in human astrocytomas and represents a therapeutic target for the management of the most frequent brain tumors in adult and children. MELK also plays a role in mammary carcinogenesis through inhibition of the pro-apoptotic function of Bcl-GL (2). Therefore, the kinase activity of MELK could be a promising molecular target for development of therapy for patients with breast cancers.
Product Categories/Family for MELK recombinant protein	Protein Kinases; Cardiovascular Disease; ERK/MAPK Pathway; Neurobiology; PKA/PKC Pathway; Ser/Thr Kinases
References	1. Nakano I. et.al: Maternal embryonic leucine zipper kinase (MELK) regulates multipotent neural progenitor proliferation. J Cell Biol 2005; 170: 413-27 2. Lin ML. et.al: Involvement of maternal embryonic leucine zipper kinase (MELK) in mammary carcinogenesis through interaction with Bcl-G, a pro-apoptotic member of the Bcl-2 family. Breast Cancer Res 2007; 9: R17.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_014791
Molecular Weight	~88kDa

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/melk-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73687