

Recombinant Human Maternal Embryonic Leucine Zipper Kinase, GST-tagged

Cat. No. MELK-1059H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MELK (1-340) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-340 a.a.
Description	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.
Applications	Kinase Assay; Western Blot
Molecular Weight	61 kDa
Expression System	Sf9 insect cells using baculovirus

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Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol
Specific Activity	200 nmol/min/mg
Purity	> 85%
Concentration	0.1 ug/ul
Sequences	1-340
Storage	Store product at -70oC. 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.

GENE INFORMATION

Gene Name	MELK maternal embryonic leucine zipper kinase [Homo sapiens]
Official Symbol	MELK
Synonyms	MELK; maternal embryonic leucine zipper kinase; HPK38; KIAA0175; Hmelk; pEg3 kinase; protein kinase PK38; EC 2.7.11.1; Protein kinase PK38
Gene ID	9833
mRNA Refseq	NM_014791
Protein Refseq	NP_055606
MIM	607025

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UniProt ID	Q14680
Chromosome Location	9p13.2
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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