

Active Recombinant Human MELK, GST-tagged

Cat. No. MELK-1430H **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 aa
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. 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. Therefore, the kinase activity of MELK could be a promising molecular target for development of therapy for patients with breast cancers.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	200 nmol/min/mg
Molecular Mass	~61 kDa

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Purity	>85%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	MELK maternal embryonic leucine zipper kinase [Homo sapiens]
Official Symbol	MELK
Synonyms	MELK; maternal embryonic leucine zipper kinase; KIAA0175; pEg3 kinase; protein kinase Eg3; protein kinase PK38; tyrosine-protein kinase MELK; HPK38;
Gene ID	9833
mRNA Refseq	NM_001256685
Protein Refseq	NP_001243614
MIM	607025
UniProt ID	Q14680
Chromosome Location	9p13.1
Function	ATP binding; calcium ion binding; lipid binding; non-membrane spanning protein

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tyrosine kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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