

Product datasheet

Recombinant human MELK (mutated T460M) protein ab179957

[2 Images](#)

Description

Product name	Recombinant human MELK (mutated T460M) protein
Biological activity	The specific activity of ab179957 was determined to be 120 nmol/min/mg.
Purity	> 80 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q14680</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MKDYDELLKYYELHETIGTGGFAKVKLACHILTGEMVAIKIM DKNTLGSD LPRIKTEIEALKNLRHQHICQLYHVLETANKIFMVLEYCPGG ELFDYIIS QDRLSEEEETRVVFRQMSAVAYVHSQGYAHRDLKPENLLF DEYHKLKLID FGLCAKPKGNKDYHLQTCCGSLAYAAPELIQKSYLGSEA DVWSMGILLY VLMCGFLPFDDDNVMALYKKIMRGKYDVPKWLSPSSILLL QQMLQVDPKK RISMKNLLNHPWIMQDYNYPVEWQSKNPFIHLDLDDCVTEL SVHHRNNRQT MEDLISLWQYDHLTATYLLLLAKKARGKPVRLRLSSFSCG QASATPFTDI KSNNWSLEDVTASDKNYVAGLIDYDWCEDDLSTGAATPR TSQFTKYWTES NGVESKSLTPALCRTPANKLKNKENVYTPKSAVKNEEYF MFPEPKTPVNK NQHKREILTMPNRYTTPSKARNQCLKETPIKIPVNSTGTDKL MTGVISPE RRCRSVELDLNQAHMEETPKRKGAKVFGSLERGLDKVIT VLTRSKRKGSA

Predicted molecular weight	88 kDa including tags
Amino acids	1 to 550
Modifications	mutated T460M
Tags	proprietary tag N-Terminus
Additional sequence information	NM_014791

Specifications

Our **Abpromise guarantee** covers the use of **ab179957** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid

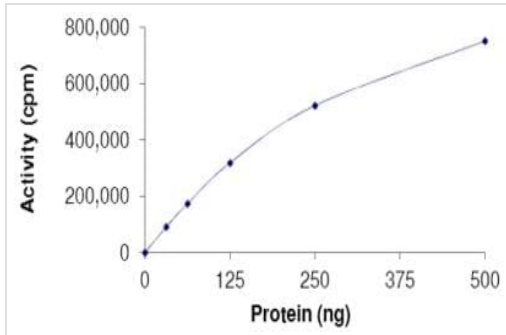
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.88% Sodium chloride, 0.002% PMSF This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	---

General Info

Function	Phosphorylates ZNF622 and may contribute to its redirection to the nucleus. May be involved in the inhibition of spliceosome assembly during mitosis.
Tissue specificity	Expressed in placenta, kidney, thymus, testis, ovary and intestine.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 KA1 (kinase-associated) domain. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated. Thr-478 phosphorylation during mitosis promotes interaction with PPP1R8.
Cellular localization	Cytoplasm.

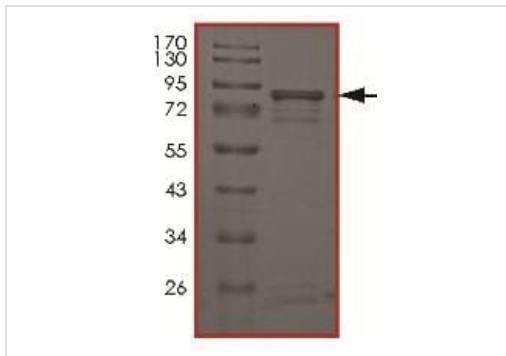
Images



Sample Kinase Activity Plot.

The specific activity of ab179957 was determined to be 120 nmol/min/mg.

Functional Studies - Recombinant human MELK (mutated T460M) protein (ab179957)



SDS-PAGE analysis of ab179957.

SDS-PAGE - Recombinant human MELK (mutated T460M) protein (ab179957)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors