

Datasheet for ABIN7563932

## MELK Protein (AA 1-643) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	MELK
Protein Characteristics:	AA 1-643
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MELK protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Melk Protein expressed in mammalian cells.
Sequence:	<p>MKDYDELLKY YELYETIGTG GFAKVKLACH VLTGEMVAIK IMDKNALGSD LPRVKTEIDA</p> <p>LKSLRHQHIC QLYHVLETKN KIFMVLEYCP GGELFDYIIS QDRLSEEEETR VVFRQILSAV</p> <p>AYVHSQGYAH RDLKPENLLF DENHKLKID FGLCAKPKGN KDYHLQTCCG SLAYAAPELI</p> <p>QGKSYLGSEA DVWSMGILLY VLMCGFLPFD DDNVMALYKK IMRGKYEVPK WLSPSSILL</p> <p>QQMLQVDPKK RISMRNLLNH PWVMQDYSCP VEWQSKTPLT HLDEDCVTEL SVHHRSSRQT</p> <p>MEDLISSWQY DHLTATYLLL LAKKARGKPA RLQLLSFSCG TASTTPKSKN LSLEDMSTSD</p> <p>DNCVAGLIDY ELCEDKLLAP KTPQVTKHLA ESNHAASKSP APGVRRAVAN KLMDKENVCT</p> <p>PKSSVKNEEQ FVFSEPKIPV SKNQYKREIP ASPTRFPTPA KARAQCLREA PVRTPGNSAG</p> <p>ADTLTTGVIS PERRCRSMDV DLNQAHMEDT PKKKGTNVFG SLERGLDKVL TALTRNKKKG</p> <p>SARDGPRKRK LHYNVTTRRL VNPDQLLSEI MAILPKKNVD FVQKGYTLKC QTQSDFGKVT</p> <p>MQFELEVCQL QRPDVVGIRR QRLKGDWVY KRLVEDILSG CKM <b>Sequence without tag. The</b></p>

**proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	MELK
Alternative Name:	Melk ( <a href="#">MELK Products</a> )
Background:	<p>Maternal embryonic leucine zipper kinase (EC 2.7.11.1) (Protein kinase PK38) (mPK38) (Tyrosine-protein kinase MELK) (EC 2.7.10.2),FUNCTION: Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity, phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of apoptosis by phosphorylating and activating MAP3K5/ASK1. Acts as a regulator of cell cycle, notably by mediating phosphorylation of CDC25B, promoting localization of CDC25B to the centrosome and the spindle poles during mitosis. Plays a key role in cell proliferation. Required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits BCL2L14. Also involved in the inhibition of spliceosome assembly during mitosis by phosphorylating</p>

## Target Details

	ZNF622, thereby contributing to its redirection to the nucleus. May also play a role in primitive hematopoiesis. {ECO:0000269 PubMed:16061694, ECO:0000269 PubMed:18948261}.
Molecular Weight:	72.7 kDa
UniProt:	<a href="#">Q61846</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months