

Datasheet for ABIN7549383  
**MEPCE Protein (AA 1-689) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	MEPCE
Protein Characteristics:	AA 1-689
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEPCE protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat MEPCE Protein expressed in mammalian cells.
Sequence:	MIEMAAEKEP FLVPAPPPPL KDESGGGGGP TVPPHQEAAS GELRGGTERG PGRCAPSAGS PAAAVGRES P GAAATSSSGP QAQQHRGGGP QAQSHGEARL SDPPGRAAPP DVGEERRGGG GTELGPAPP RPRNGYQPHR PPGGGGGKRR NSCNVGGGGG GFKHPAFKRR RRVNSDCDSV LPSNFLGGN IFDPLNLNSL LDEEVSRITLN AETPKSSPLP AKGRDPVEIL IPKDITDPLS LNTCTDEGHV VLASPLKTGR KRHRHRGQHH QQQQAAGGSE SHVPPTAPL TPLLHGEGAS QQPRHRGQNR DAPQPYELNT AINCRDEVVS PLPSALQGGS GSLSAPPAAS VISAPSSSSS RHRKRRRTSS KSEAGARGGG QGSKEKGRGS WGRHHHHHP LPAAGFKKQQ RKFQYGNYSK YYGYRNPSC E DGRLRVLKPE WFRGRDVL DL GCNVGHILTL IACKWGPSRM VGLDIDSRLI HSARQNI RH Y LSEELRLPPQ TLEGDPGAEG EGGTTTVRKR SCFPASLTAS RGPAAAPQVP LDGADTSVFP NNVVFTGNY VLDRDDLVEA QTPEYDVVLC LSLTKWVHLN WGDEGLKRMF RRIYRHLRPG GILVLEPQPW SSYGKRKTLT ETIYKNYYRI QLKPEQFSSY LTSPDVGFS S

YELVATPHNT SKGFQRPVYL FHKARSPSH **Sequence without tag. The 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

MEPCE

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### Alternative Name:

MEPCE ([MEPCE Products](#))

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### Background:

7SK snRNA methylphosphate capping enzyme (MePCE) (EC 2.1.1.-) (Bicoid-interacting protein 3 homolog) (Bin3 homolog),FUNCTION: S-adenosyl-L-methionine-dependent methyltransferase that adds a methylphosphate cap at the 5'-end of 7SK snRNA (7SK RNA), leading to stabilize it (PubMed:17643375, PubMed:19906723, PubMed:30559425). Also has a non-enzymatic function as part of the 7SK RNP complex: the 7SK RNP complex sequesters the positive transcription elongation factor b (P-TEFb) in a large inactive 7SK RNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (PubMed:17643375). The 7SK RNP complex also promotes snRNA gene transcription by RNA polymerase II via interaction with the little elongation complex (LEC) (PubMed:28254838). In the 7SK RNP

## Target Details

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complex, MEPCE is required to stabilize 7SK RNA and facilitate the assembly of 7SK RNP complex (PubMed:19906723). MEPCE has a non-enzymatic function in the 7SK RNP complex, interaction with LARP7 within the 7SK RNP complex occluding its catalytic center (PubMed:19906723). {ECO:0000269|PubMed:17643375, ECO:0000269|PubMed:19906723, ECO:0000269|PubMed:28254838, ECO:0000269|PubMed:30559425}.

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Molecular Weight: 74.4 kDa

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UniProt: [Q7L2J0](#)

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Pathways: [Chromatin Binding](#), [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months