

Datasheet for ABIN3136173

## CEMIP Protein (AA 31-1361) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	CEMIP
Protein Characteristics:	AA 31-1361
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEMIP protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: AVATECPDQS PELQPWSPGH NRDYQVHIGH GRKLLLTSSA TVHSITISGG GKLVIKDHHE  
HIVLRTRYIL IDGGELHAG SALCPFEGNF SIVLYGRADE NILPDPYYGL KYIGVDKGGT  
LELHGQKKLS WTFLNKTLP GGMQEGGYFF ERSWGHARGVI VHVIDAKLGT VHSDFRFDTY  
RSKKESERLV QYLNAVDPGR ILSVAVNDEG SRNLDDTARK AMTKLGSKHF LHLGFRHPWS  
FITVKGNPSS SVEDHIEYHG HKGSAAARVF KLFQTEHGEH FNVSSSSEWV QDVEWTEWFD  
HDKVPQSKGG EKISDLRAAY PGKICNRPID IQATTMDGVA LSTEVVYKNG QDYRFACYTR  
GRACRSYRVR FLCGKPVPRK LTVSIDTNVN STILSLVDNV RSWRPGDTLV VASTDYSMYQ  
AEEFRVLPCK ACTSTQVKVA GKPQYLHIGE EIDGVMRAE VGLLTRNIVV MGEMEDRCYP  
YTNHICDFFD FDTFGGHIKF ALGFKAAHLE GVELKYMGGQ LVGQYPIHFH LAGDLDEQGG  
YDPPTYIRDL SIHHTFSRCI TVHGSNGLLI KDVVGYNSLG HCFPTEDGPE ERNTFDHCLG  
LLVKSGLLLP SDRDSRMCKV ITEDSYPGYI PKPRQDCNAV STFWMANPNN NLINCAAAGS  
EETGFWFIFH HVPTGPSVGM YSPGYSEHIP LGKFYNNRAH SNYRAGMIID NGVKTTTEASA

KDKRPFLSII SARYSPHQDA DPLKPREPAI IRHFTAYKNQ DHGAWLRGGD VWLDSRCRFAD  
NGIGLTLASG GTFPYDDGSK QEIKNSLFVG ESGNVGTEMM DNRIWGPGL DHSGRTPIG  
QNFPIRGIQF YDGPINIQC TFRKFAALEG RHTSALAFRL NNAWQSCPHN NVTNIAFEDV  
PITSRVFFGE PGPWFNQLDM DGDKTSVFHD LDGSVSEYPG SYLTKDDNWL VRHPDCINVP  
DWRGAICSGR YAQMYIQAYK SSNLRMKIHK NDFPSHPLYL EGALTRSTHY QQYQPVITLQ  
KGYTIHWDQT APAELAIWLI NFNKGDWIRV GLCYPRGTTT SILSDVHNRL LKQTSKTGTF  
VRTLQMDKVE QSYPRSHYY WDEDSGLLFL KLKAQNEREK FAFCSMKGCE RIKIKALLPR  
NAGISDCTAT AYPRFTERAI VDVPMRKLK GAQLKTKDHF LEVKMESSRQ HFFHLRNDFA  
YIEVDGRRYP CSEDGIQIVV IDGSRGHVVS HGSFRNAILQ GIPWQLFNYY AAIPDNSIVL  
MASKGRYITR GPWTRVLEKL GADKGLKLKE KMAFVGFKGS FRPIWVTLET EDHKAKIFQV  
VPIPVVRKKK L

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Cemip Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

## Product Details

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1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: CEMIP

Alternative Name: Cemip ([CEMIP Products](#))

Background: Mediates depolymerization of hyaluronic acid (HA) via the cell membrane-associated clathrin-coated pit endocytic pathway. Binds to hyaluronic acid. Hydrolyzes high molecular weight hyaluronic acid to produce an intermediate-sized product, a process that may occur through rapid vesicle endocytosis and recycling without intracytoplasmic accumulation or digestion in lysosomes. Involved in hyaluronan catabolism in the dermis of the skin and arthritic synovium. Positively regulates epithelial-mesenchymal transition (EMT), and hence tumor cell growth, invasion and cancer dissemination. In collaboration with HSPA5/BIP, promotes cancer cell migration in a calcium and PKC-dependent manner. May be involved in hearing. {ECO:0000269|PubMed:24251095}.

Molecular Weight: 150.9 kDa Including tag.

UniProt: [Q8BI06](#)

## 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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

## Application Details

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molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process