

Datasheet for ABIN3135964
MCAF1 Protein (AA 1-1306) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	MCAF1 (ATF7IP)
Protein Characteristics:	AA 1-1306
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCAF1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MDSVEEPQKK VFKARKTMRA SDRQQLDAPVH RVKGELLRAD GKLLNGSHEN GDLDPSTPLE NTDCIQDREE VNGIDGICFQ SEESTTEWKE TPCMPNVAVK NKQEDLNSEA LPSITCDLS SRVTTEPGSG SPASDNPGCG TPVSDNPASD NPASDNPASD NPDSGDLAGG ELATTVQATG DSACEEPPSS DPSSSDPTSS EPSSSEPTCS EPISGDPVSE EAASHDLVSG DSTCSEPVSG EPVSHEAASS EPATSEPASD EPVARVVAAC ELAPGESALD DCAPSGDSQS DEPPSSEDSL PRSVCGLAS GELTPGELSV EPATDTVKPS SSAVCEAGPD PDKTEPSSNN SDDCPGKSED DEHLDQIQSK DSCDEGNKVN SNVVEKEEPL ETHSAIICSD LPPENTTKIA EDPIAEPALE EEAISSSMEV DQSEKDEHKS PAEPVAVSE DPAEEDKEDT VVDNTDSMET DEIIPILEKL APTDELSCF SKASLLPVET SQDLEDKMEG SFGSPSKQES SENLPKEAFL VLSDEEDLSC GKDESEAVAQ SKMSTPEGEK SEKDGKAEER ERVPAEEQPP VRNEFSRRKR SKSEDMDSVE SKRRRYMDEE YEAEFQVKIT AKGDINQLQ KVIQWLLQEK LCALQCAVFD KTLAELKTRV EKIECNKRHK AVLTELQAKI ARLTKRFGAA KDDLKQRQES PPNPPISPGK PANDTNSNNN</p>
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MTYRNAGTVR QLLESKRNVSEGPPPSFQTP VNTVSSASHA TSTAVVSSQP KLQTSATSGS
LPAAPLLPAP STATVVATTQ VPSGTPQPTI SLQPLPVILH VPVAVTSQPQ LLQSHPGTLV
TNQPSGNVEF ISVQSQPTVS GLTKNPVSLP PLPNPTKPNIPSVSPSSSIQ RNSSTTAAPL
GTTLAVQAVP TAHSIVQATR TSLPTVGPSTLYSSSSSRGP IQMKIPISTF SPPSSAEQNS
SATPRIVTEN QTNKTVDSSI NKKAADSTSQ SGKASSSDSS GVIDLTMDDE ESGTTQDPKK
ISPPSSSTVS TSQPMSRPLQ PILPAPPLQP SGVPTSGPSQ ATIHVLPTAP TTVNVTHRPV
TQVTTRLPVP RAPANHQVVY TTLPAPTTQA PLRGTVMQAP AVRQVNPQNS VTVRVPQTTT
YVVNGLTLG SAGPQLTVHH RPPQVHNEPP RPLHPAPLPE APQPQLRPPE AASTSLPQKP
HLKLARVQSQ NGIVLSWSVL EVDRSCATVD SYHLYAYHEE PSATVPSQWK KIGEVKALPL
PMACTLTQFV SGSKYYFAVR AKDIYGRFGP FCDPQSTDVI SSSQNS

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Atf7ip 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.

Purification:

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

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

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

Target: MCAF1 (ATF7IP)

Alternative Name: [Atf7ip \(ATF7IP Products\)](#)

Background: Recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. Can both act as an activator or a repressor depending on the context. Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. Required to stimulate histone methyltransferase activity of SETDB1 and facilitate the conversion of dimethylated to trimethylated H3 'Lys-9' (H3K9me3). The complex formed with MBD1 and SETDB1 represses transcription and couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3). May have ATPase activity. {ECO:0000269|PubMed:10777215, ECO:0000269|PubMed:14536086}.

Molecular Weight: 139.5 kDa Including tag.

UniProt: [Q7TT18](#)

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.

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 molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

Application Details

options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

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



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