



[Go to Product page](#)

Datasheet for ABIN3092281  
**EDC4 Protein (AA 2-1401) (His tag)**

### Overview

Quantity:	1 mg
Target:	EDC4
Protein Characteristics:	AA 2-1401
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EDC4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: ASCASIDIED ATQHRLDILK LDRPAGGPSA ESPRPSSAYN GDLNGLLVPD PLCSGDSTSA  
NKTGLRTMPP INLQEKQVIC LSGDDSSSTCI GILAKEVEIV ASSDSSISSK ARGSNKVKIQ  
PVAKYDWEQK YYYGNLIAVS NSFLAYAIRA ANNGSAMVRV ISVSTERTL LKGFTGSVAD  
LAF AHLNSPQ LACLDEAGNL FWRLALVNG KIQEEILVHI RQPEGTPLNH FRRIIWCPFI  
PEESEDCC EE SSPTVALLHE DRAEVDLDM LRSSHSTWPV DVSQIKQGFV VVKGHSTCLS  
EGALSPDGTV LATASHDGYV KFWQIYIEGQ DEPRCLHEWK PHDGRPLSCL LFCDNHKKQD  
PDVPFWRF LI TGADQNRELK MWCTVSWTCL QTIRFSPDIF SSVSVPPSLK VCLDLSAEYL  
ILSDVQRKVL YVMELLQNQE EGHACFSSIS EFL LTHPVLS FGIQVVSR CR LRHTEVLP AE  
EENDSLGADG THGAGAMESA AGVLIKLF CV HTKALQDVQI RFQPQLNPDV VAPLPHTAH  
EDFTFGESRP ELGSEGLGSA AHGSQPDLRR IVELPAPADF LSLSSE TKPK LMTPDAFMTP  
SASLQQITAS PSSSSSGSSS SSSSSSSSLT AVSAMSSTSA VDPSLTRPPE ELTLSPKLQL  
DGSLTMSSSG SLQASPRGLL PGLLPAPADK LTPKGGQVP TATSALSLEL QEVEPLGLPQ

ASPSRTRSPD VISSASTALS QDIPEIASEA LSRGFGSSAP EGLEPDSMAS AASALHLLSP  
RPRPGPELGP QLGLDGGPGD GDRHNTPSLL EAALTQEAST PDSQVWPTAP DITRETCSTL  
AESPRNGLQE KHKSLAFHRP PYHLLQQRDS QDASAEQSDH DDEVASLASA SGGFGTKVPA  
PRLPAKDWKT KGSPRTSPKL KRKSKKDDGD AAMGSRLTEH QVAEPPEDWP ALIWQQQREL  
AELRHSQEEL LQRLCTQLEG LQSTVTGHVE RALETRHEQE QRRLERALAE GQQRGGQLQE  
QLTQQLSQAL SSAVAGRLER SIRDEIKKTV PPCVSRSLER MAGQLSNSVA TKLTAVEGSM  
KENISKLLKS KNLTDAIARA AADTLQGPMQ AAYREAFQSV VLPAFEKSCQ AMFQQINDSF  
RLGTQEYLQQ LESHMKSRA REQEAREPVL AQLRGLVSTL QSATEQMAAT VAGSVRAEVQ  
HQLHVAVGSL QESILAQVQR IVKGEVSVAL KEQQAAVTSS IMQAMRSAAG TPVPSAHLDC  
QAQQAHLQL LQQGHLNQAF QQALTAADLN LVLYVCETVD PAQVFGQPPC PLSQPVLLSL  
IQQLASDLGT RTDLKLSYLE EAVMHLDHSD PITRDHMGSV MAQVRQKLFQ FLQAEPHNSL  
GKAARRLSLM LHGLVTPSLP

**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.
- Human EDC4 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.

## Product Details

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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:	EDC4
Alternative Name:	EDC4 ( <a href="#">EDC4 Products</a> )
Background:	In the process of mRNA degradation, seems to play a role in mRNA decapping. Component of a complex containing DCP2 and DCP1A which functions in decapping of ARE-containing mRNAs. Promotes complex formation between DCP1A and DCP2. Enhances the catalytic activity of DCP2 (in vitro). {ECO:0000269 PubMed:16364915}.
Molecular Weight:	152.5 kDa Including tag.
UniProt:	<a href="#">Q6P2E9</a>

## 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:	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 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)