

Datasheet for ABIN3094938  
**RC3H2 Protein (AA 1-1191) (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	1 mg
Target:	RC3H2
Protein Characteristics:	AA 1-1191
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RC3H2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MPVQAAQWTE FLSCPICYNE FDENVHKPIS LGCSHTVCKT CLNKLHRKAC PFDQTAINTD IDVLPVNFAL LQLVGAQVPD HQSIKLSNLG ENKHYEVAKK CVEDLALYLK PLSGGKGVAS LNQSALSRPM QRKLVTLVNC QLVEEEGRVR AMRAARSLGE RTVTELILQH QNPQQLSANL WAAVRARGCQ FLGPAMQEEA LKLVLLEALED GSALSRKVLV LFVVQRLEPR FPQASKTSIG HVVQLLYRAS CFKVTKRDED SSLMQLKEEF RSYEALRREH DAQIVHIAME AGLRISPEQW SSLLYGDLAH KSHMQSIIDK LQSPESFAKS VQELTIVLQR TGDPANLNRL RPHLELLANI DPNPDAVSPT WEQLENAMVA VKTVVHGLVD FIQNYSRKGH ETPQPQPNK YKTSMCRDLR QQGGCPRGTN CTFASQEEL EKYRLRNKKI NATVRTFPLL NKVGVNNTVT TTAGNVISVI GSTETTGKIV PSTNGISNAE NSVSQISRS TDSTLRALET VKKVGKVGAN GQNAAGPSAD SVTENKIGSP PKTPVSNVAA TSAGPSNVGT ELNSVPQKSS PFLTRVPVYP PHSENIQYFQ DPRTQIPFEV PQYPQTGYYP PPPTVPAGVA PCVPRFVRN NVPESSLPPA SMPYADHYST FSPRDRMNSS PYQPPPPQPY GPVPPVPSGM YAPVYDSRRI WRPPMYQRDD IIRSNLPPM
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DVMHSSVYQT SLRERYNSLD GYYSVACQPP SEPRTTVPLP REPCGHLKTS CEEQIRRKPD  
QWAQYHTQKA PLVSSTLPVA TQSPTPPSPL FSVDFRADFS ESVSGTKFEE DHLSHYSPWS  
CGTIGSCINA IDSEPKDVIA NSNAVLMDLD SGDVKRRVHL FETQRRTKEE DPIIPFSDGP  
IISKWGAISR SSRTGYHTTD PVQATASQGS ATKPISVSDY VPYVNAVDSR WSSYGNEATS  
SAHYVERDRF IVTDLSGHRK HSSTGDLLSL ELQQAQKSNL LLQREANALA MQQKWNSLDE  
GRHLTLNLLS KEIELRNGEL QSDYTEDATD TKPDRDIELE LSALDTDEPD GQSEPIEEIL  
DIQLGISSQN DQLLNGMAVE NGHPVQQHQK EPPKQKKQSL GEDHVILEEQ KTILPVTSCF  
SQPLPVSISN ASCLPITTSV SAGNLILKTH VMSEDKNDFL KPVANGKMVN S

**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 RC3H2 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:

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.

## Product Details

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: RC3H2

Alternative Name: RC3H2 ([RC3H2 Products](#))

Background: Post-transcriptional repressor of mRNAs containing a conserved stem loop motif, called constitutive decay element (CDE), which is often located in the 3'-UTR, as in HMGXB3, ICOS, IER3, NFKBID, NFKBIZ, PPP1R10, TNF and in many more mRNAs. Binds to CDE and promotes mRNA deadenylation and degradation. This process does not involve miRNAs. In follicular helper T (Tfh) cells, represses of ICOS and TNFRSF4 expression, thus preventing spontaneous Tfh cell differentiation, germinal center B-cell differentiation in the absence of immunization and autoimmunity. In resting or LPS-stimulated macrophages, controls inflammation by suppressing TNF expression. Also recognizes CDE in its own mRNA and in that of paralogous RC3H2, possibly leading to feedback loop regulation (By similarity). May act as a ubiquitin E3 ligase. Involved in the ubiquitination of MAP3K5 (PubMed:24448648). {ECO:0000250|UniProtKB:P0C090, ECO:0000269|PubMed:24448648}.

Molecular Weight: 132.6 kDa Including tag.

UniProt: [Q9HBD1](#)

## 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: 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

## Application Details

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