

Datasheet for ABIN3135151
RC3H1 Protein (AA 1-1130) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	RC3H1
Protein Characteristics:	AA 1-1130
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RC3H1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	MPVQAPQWTD FLSCPICTQT FDETIRKPIS LGCGHTVCKM CLNKLHRKAC PFDQTTINTD IELLPVNSAL LQLVGAQIPE QQPITLCSGV EDTKHYYEAK KCVEELALYL KPLSSARGVG LNSTTQSVLS RPMQRKLVTL VHCQLVEEEG RIRAMRAARS LGERTVTELI LQHQNPPQLS SNLWAAVRAR GCQFLGPAMQ EEALKLVLLA LEDGSALS RK VLVLFFVQRL EPRFPQASKT SIGHVVQLLY RASCFKVTKR DEDSSLMQLK EEFRTYEALR REHDSQIVQI AMEAGLRIAP DQWSSLLYGD QSHKSHMQSI IDKLQTPASF AQSVQELTIA LQRTGDPANL NRLRPHLELL ANIDPSPDAP PPTWEQLENG LVAVRTVVHG LVDYIQNH SK KGADQQQPPQ HSKYKTYMCR DMKQRGGCPR GASCTFAHSQ EELEKFRKMN KRLVPRRPLS ASLGQLNEVG LPSAPILSDE SAVDLSNRKP PALPNGIASS GSTVTQLIPR GTDPSFDSSL KPVKLDHLSS SAPGSPPDLL ESAPKSISAL PVNPHVPVPR GPTDLPPMPV TKPIQMVPRG SQLYPAQQAD VYYQDPRGSA PAFETAPYQQ GMYTTPPCV SRFVRPPPSA PEPGPPYLDH YSPYLQDRVI NSQYGTQPQQ YPPMYPAHYD GRRVYPAQSY TREEMFRESP IPIDIPSAV PSYVPESRER YQQVEGYYPV
-----------	--

APHPAQIRPS YPRDPPYSRL PPPQPHPSLD ELHRRRKEIM AQLEERKVIS PPPFAPSPTL
PPAFHPEEFL DEDLKVAGKY KANDYSQYSP WSCDTIGSYI GTKDAKPKDV VAAGSVEMMN
VESKGTREQR LDLQRRAVET SDDDLPFGD RPTVSRFGAI SRTSKTLYQG AGPLQAIAPQ
GAPTKSINIS DYSAYGAHGG WGDSPYSPHA NIPPQGHFIE REKMSMAEVA SHGKPLLSAE
REQLRLELQQ LNHQISQQTQ LRGLAVSNR LVLQREVNTL ASQPQPQLP PKWPGMISSE
QLSLELHQVE REIGKRTREL SMENQCSVDM KSKLGTSKQA ENGQPEPQNK IRTEDLTFTF
SDVPNGSALT QENLSLLSNK TSSLNLSEDS EGGGDNDSQ RSGVVSNSAP

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 Rc3h1 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 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

Product Details

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:	RC3H1
Alternative Name:	Rc3h1 (RC3H1 Products)
Background:	<p>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 (PubMed:23663784). Cleaves translationally inactive mRNAs harboring a stem-loop (SL), often located in their 3'-UTRs, during the early phase of inflammation in a helicase UPF1-independent manner (PubMed:26000482). 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/Ox40 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. {ECO:0000269 PubMed:15917799, ECO:0000269 PubMed:18172933, ECO:0000269 PubMed:20412057, ECO:0000269 PubMed:20639877, ECO:0000269 PubMed:23583642, ECO:0000269 PubMed:23583643, ECO:0000269 PubMed:23663784, ECO:0000269 PubMed:26000482}.</p>
Molecular Weight:	126.3 kDa Including tag.
UniProt:	Q4VGL6
Pathways:	Ribonucleoprotein Complex Subunit Organization , Activated T Cell Proliferation

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
--------------------	--

Application Details

	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 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