

Datasheet for ABIN3130923  
**CdGAP Protein (AA 1-1425) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	CdGAP (ARHGAP31)
Protein Characteristics:	AA 1-1425
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CdGAP protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MKNKGAKQKL KRKGAASAFG CDLTEYLESS GQDVPYVLKS CAEFIETHGI VDGIRLSGI  
 TSNIQRLRQE FGSDQCPDLT REVYLQDIHC VGSLCKLYFR ELPNPLLYE LYEFTEAVS  
 HRPEEQLAR IQNVILELPP PHYRTLEYLI RHLAHIASFS SKTNMHARNL ALVWAPNLLR  
 SKKIEATICN GDA AFLAVRV QQVIEFILN HADQIFNGGA PGALQQDESR TITKSLTLPA  
 LSLPMKLVSL EEAQARSLAT NHPARKERRE NSLPEIVPPP FHTVLELPDN KRKLSKSKK  
 WKSIFNLGRS GSDSKSLSR NGSVFRGQR LSVEKATIRP AKSMDSLCSV PVEGKENKGN  
 FSRTVTTGGF FIPATKMHAS STGSSCDLSK EGEWGQEGMP AGAEGGCEVG GQIRPLPEQL  
 KVFRPIGDPE SEQSAPKLLG MFYTSSDSPG KSVFTSSLFQ MEPSPRHQK ALNISEPFAV  
 SVPLRVSAVI STNSTPCRTP PKELQSLSSL EEFQSGSES GGWPEEEKPL GAESFPGSVT  
 KKAATEDTKP EPEVPGRAEC SQSPPLDPGT QVEKTLHVS LGSQVSKEAE KRPKAEKVME  
 ESQGASQPKP STPQESLGAG TEPLILHEMD EEDLAQALIW PEIQQLKII ESEEFSSLP  
 PAAQKTSPPIP ESSPAPFFFP EAPGSLPSSS APREVWTRDA ANQSIQAAI LTDREKLEPV

CSLLESESQQ ELSPDPASLA PLEMLLFEKV SSPARIEIGG PRNLSPLTP APPPTPLEE  
EPEVLLSKEG PDREDAARDS RTDVYTEQPT PKESPGIPTP CQREEAIASP NEKQNRHAV  
PENKGPGLPS PTKEVDIIPQ EEGGAPHSQAQ EPSCDCEDDT VTDPAQHGLE MVEPWEEPQW  
VTSPLHSPTL KEVQESQTQG SQGHRLEERRL CHRPSLRQSH SLDSKTTGNS HWTLEAPFSS  
SCANLETERN YEPLQPPAAR TKIAGLEEKA LKAFREFSGL KGLEVLPSQK GPSGIQPKPV  
ETNFMGLAEG KEQEPQLELS NRQMKHSDVP GPDSSKESP RAQDSTLPGE HPLQLQLKNT  
ECGSPKSKHR PSSLNLD SAT PIADLFLEN GAPFSSPGIE LSELGDTKVT WMSSSHCKAA  
PWNSQDTQDL DIVAHTLTGR RNSAPVSVSA VRTSFMVKMC QAKAVPVIPP KIQYTQIPQP  
LPSQSTGEGG AQPLERSQEE PGSTPEIPQK STKDDSPSSL GSPEEEQPKQ ETGASASRRQ  
ASITSCMYEG SSCSPEPSAS TLASTQDAVV QCRKRTSETE PSGDNLLSSK LERASGGPKA  
FHRSRPGRPQ SLILFPIMDH LPSSPTVIDS KVLLSPIRSP TQTVSPGLLC GELAENTWIT  
PEGVTLRNKM TIPKNGQRLE TSTSCFYQPQ RRSVILDGRS GRQIE

**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 Arhgap31 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:	CdGAP (ARHGAP31)
Alternative Name:	Arhgap31 ( <a href="#">ARHGAP31 Products</a> )
Background:	Functions as a GTPase-activating protein (GAP) for RAC1 and CDC42. Required for cell spreading, polarized lamellipodia formation and cell migration. {ECO:0000269 PubMed:16860736, ECO:0000269 PubMed:9786927}.
Molecular Weight:	156.2 kDa Including tag.
UniProt:	<a href="#">A6X8Z5</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:	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

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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