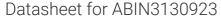
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# CdGAP Protein (AA 1-1425) (His tag)



**Image** 



Go to Product page

### 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 VDGIYRLSGI
TSNIQRLRQE FGSDQCPDLT REVYLQDIHC VGSLCKLYFR ELPNPLLTYE LYEKFTEAVS
HRPEEGQLAR IQNVILELPP PHYRTLEYLI RHLAHIASFS SKTNMHARNL ALVWAPNLLR
SKKIEATICN GDAAFLAVRV QQVVIEFILN HADQIFNGGA PGALQQDESR TITKSLTLPA
LSLPMKLVSL EEAQARSLAT NHPARKERRE NSLPEIVPPP FHTVLELPDN KRKLSSKSKK
WKSIFNLGRS GSDSKSKLSR NGSVFVRGQR LSVEKATIRP AKSMDSLCSV PVEGKENKGN
FSRTVTTGGF FIPATKMHAS STGSSCDLSK EGEWGQEGMP AGAEGGCEVG GQIRPLPEQL
KVFRPIGDPE SEQSAPKLLG MFYTSSDSPG KSVFTSSLFQ MEPSPRHQRK ALNISEPFAV
SVPLRVSAVI STNSTPCRTP PKELQSLSSL EEFSFQGSES GGWPEEEKPL GAESFPGSVT
KKAATEDTKP EPEVPGRAEC SQSPPLDPGT QVEKKTLHVS LGSQVSKEAE KRPKAEKVME
ESQGASQPKP STPQESLGAG TEPLILHEMD EEDLAQALIW PEIQQELKII ESEEEFSSLP
PAAQKTSPIP ESSPAPFPFP EAPGSLPSSS APREVWTRDA ANQSIQEAAI LTDREKLEPV

CSLLESESQQ ELSPDPASLA PLEMLLFEKV SSPARIEIGG PRNLSPPLTP APPPTPLEE
EPEVLLSKEG PDREDAARDS RTDVYTEQPT PKESPGIPTP CQREEAIASP NEKQNARHAV
PENKGPGLPS PTKEVDIIPQ EEGGAPHSAQ EPSDCDEDDT VTDPAQHGLE MVEPWEEPQW
VTSPLHSPTL KEVQESQTQG SQGHRLERRL CHRPSLRQSH SLDSKTTGNS HWTLEAPFSS
SCANLETERN YEPLQPPAAR TKIAGLEEKA LKAFREFSGL KGLEVLPSQK GPSGIQPKPV
ETNFMGLAEG KEQEPQLELS NRQMKHSDVP GPDSSKESSP RAQDSTLPGE HPLQLQLKNT
ECGPSKGKHR PSSLNLDSAT PIADLFRLEN 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.

#### 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 receival 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.

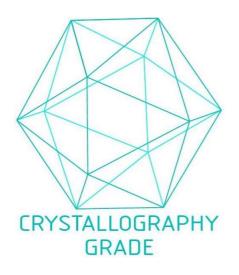
## **Product Details**

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
	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:	CdGAP (ARHGAP31)
Alternative Name:	Arhgap31 (ARHGAP31 Products)
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:	A6X8Z5
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 gurantee
	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