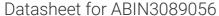
# antibodies .- online.com





# ARHGEF5 Protein (AA 1-1597) (His tag)





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### Overview

Quantity:	1 mg
Target:	ARHGEF5
Protein Characteristics:	AA 1-1597
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### **Product Details**

Sequence:

MEAEEAQRGA SPPISAIEEF SIIPEAPMRS SQVSALGLEA QEDEDPSYKW REEHRLSATQ
QSELRDVCDY AIETMPSFPK EGSADVEPNQ ESLVAEACDT PEHWEAVPQS LAGRQARTLA
PPELWACPIQ SEHLDMAPFS SDLGSEEEEV EFWPGLTSLT LGSGQAEEEE ETSSDNSGQT
RYYSPCEEHP AETNQNEGSE SGTIRQGEEL PPEELQESQG LLHPQEVQVL EEQGQQEAGF
RGEGTLREDV CADGLLGEEQ MIEQVNDEKG EQKQKQEQVQ DVMLGRQGER MGLTGEPEGL
NDGEWEQEDM ERKAQGQGGP EQGEERKREL QVPEENRADS QDEKSQTFLG KSEEVTGKQE
DHGIKEKGVP VSGQEAKEPE SWDGGRLGAV GRARSREEEN EHHGPSMPAL IAPEDSPHCD
LFPGASYLMT QIPGTQTESR AEELSPAALS PSLEPIRCSH QPISLLGSFL TEESPDKEID
QNSQQEESRL RKGTVSSQGT EVVFASASVT PPRTPDSAPP SPAEAYPITP ASVSARPPVA
FPRRETSCAA RAPETASAPL SMDDPSPCGT SEMCPAALYG FPSTGTSPPR PPANSTGTVQ
HLRSDSFPGS HRTEQTPDLV GMLLSYSHSE LPQRPPKPAI YSSVTPRRDR RSGRDYSTVS
ASPTALSTLK QDSQESISNL ERPSSPPSIQ PWVSPHNPAF ATESPAYGSS PSFVSMEDVR

IHEPLPPPPP QRRDTHPSVV ETDGHARVVV PTLKQHSHPP PLALGSGLHA PHKGPLPQAS DPAVARQHRP LPSTPDSSHH AQATPRWRYN KPLPPTPDLP QPHLPPISAP GSSRIYRPLP PLPIIDPPTE PPPLPPKSRG RSRSTRGGHM NSGGHAKTRP ACQDWTVPLP ASAGRTSWPP ATARSTESFT STSRSKSEVS PGMAFSNMTN FLCPSSPTTP WTPELQGPTS KDEAGVSEHP EAPAREPLRR TTPQQGASGP GRSPVGQARQ PEKPSHLHLE KASSWPHRRD SGRPPGDSSG QAVAPSEGAN KHKGWSRQGL RRPSILPEGS SDSRGPAVEK HPGPSDTVVF REKKPKEVMG GFSRRCSKLI NSSQLLYQEY SDVVLNKEIQ SQQRLESLSE TPGPSSPRQP RKALVSSESY LQRLSMASSG SLWQEIPVVR NSTVLLSMTH EDQKLQEVKF ELIVSEASYL RSLNIAVDHF QLSTSLRATL SNQEHQWLFS RLQDVRDVSA TFLSDLEENF ENNIFSFQVC DVVLNHAPDF RRVYLPYVTN QTYQERTFQS LMNSNSNFRE VLEKLESDPV CQRLSLKSFL ILPFQRITRL KLLLQNILKR TQPGSSEEAE ATKAHHALEQ LIRDCNNNVQ SMRRTEELIY LSQKIEFECK IFPLISQSRW LVKSGELTAL EFSASPGLRR KLNTRPVHLH LFNDCLLLSR PREGSRFLVF DHAPFSSIRG EKCEMKLHGP HKNLFRLFLR QNTQGAQAEF LFRTETQSEK LRWISALAMP REELDLLECY NSPQVQCLRA YKPRENDELA LEKADVVMVT QQSSDGWLEG VRLSDGERGW FPVQQVEFIS NPEVRAQNLK EAHRVKTAKL QLVEQQA

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.
- Human ARHGEF5 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

Product Details	
	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:
	<ol> <li>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> </ol>
	<ol><li>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	
Target:	ARHGEF5
Alternative Name:	ARHGEF5 (ARHGEF5 Products)
Background:	Guanine nucleotide exchange factor which activates Rho GTPases (PubMed:15601624).
	Strongly activates RHOA (PubMed:15601624). Also strongly activates RHOB, weakly activates
	RHOC and RHOG and shows no effect on RHOD, RHOV, RHOQ or RAC1 (By similarity). Involved
	in regulation of cell shape and actin cytoskeletal organization (PubMed:15601624). Plays a role
	in actin organization by generating a loss of actin stress fibers and the formation of membrane
	ruffles and filopodia (PubMed:14662653). Required for SRC-induced podosome formation (By
	similarity). Involved in positive regulation of immature dendritic cell migration (By similarity).
	{ECO:0000250 UniProtKB:E9Q7D5, ECO:0000269 PubMed:14662653,

ECO:0000269|PubMed:15601624}. 177.8 kDa Including tag.

Molecular Weight: UniProt: Q12774

# **Application Details**

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

## **Application Details**

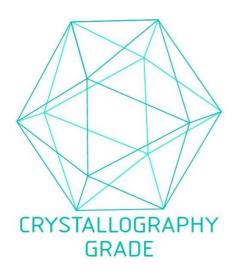
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	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest 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	
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.

# Images

**Expiry Date:** 

Storage:

Storage Comment:



-80 °C

Store at -80°C.

Unlimited (if stored properly)

**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process