

Datasheet for ABIN3136671

ARHGEF12 Protein (AA 2-1543) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ARHGEF12
Protein Characteristics:	AA 2-1543
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF12 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SGTQSTITDR FPLKKPIRHG SILNRESPTD KKQKVERSSS HDFDPTDSSS KGTKSSSEES RSEIYGLVQR CVIIQKDDNG FGLTVSGDNP VVQSVKEDG AAMRAGVQTG DRIIKVNGTL VTHSNHLEV V KLIRSGSYVA LTVQGRPPGS PQIPLADSEV EPSVTGHMSP IMTSPHSPGA AGNMERITSP VLVGEENNVV HNQKVEILRK MLQKEQERLQ LLQEDYNRTA TQRLLKEIQE AKKHIPQLQE QLSKATGSAQ DGAVIAPSRP LGDALTLSEA EADPGDGLCR TDWSSGDASR PSSDSADSPK SSLRERSYLE EAPERSEGVQ DAEPQSLVGS PSTRGAPHII GAEDDDFGTE HEQINGQCSC FQSIELLKSR PAHLAVFLHH VVSQFDPATL LCYLYSDLYK QTNKETRRV FLEFHQFFLD RSAHLKVPVP EESISVDLEKR RPELIPEDLH RLYIQTMQER VHPEVQRHLE DFRQKRSMGL TLAESLTKL DAERDKDRGT LEKERACAEQ IVTKIEEVLMTAQAVEEERS STMQYVILMY MKYLGVKVKE PRNLEHKRGR IGFLPKIKQS MKKDREGEEK GKRRGFPSIL GPPRRPSRHD NSAIGRAMEI QKSRHPKHLS TPSSVSPEPQ DPAKLRQSGV ANEGTDTGYL PASSMSSATS GTALSQEGGR ENDTGTKQVG EASAPGDCLD STPRVPTTVF DFPPPLLDQV
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QEECEVERV AEHGTPKPFR KFDSIAFGES QSEDEQFEND LETDPPNWQQ LVSREVLGL
KPSEIKRQEV INELFYTERA HVRTLKVLDQ VFYQVSREG ILSPSELRKI FSNLEDILQL
HVGLNEQMKA VRKRNETSVI DHIGEDLLIW FSGPGEEKLK HAAATFCSNQ PFALEMIKSR
QKKDSRFHTF VQDAESNPLC RRLQLKDIP TQMQRITKYP LLLDNIAKYT EWPPERKVK
KAADHCRQIL NYVNQAVREA ENKQRLEDYQ RRLDTSNLKL SEYPNVDELRL NDLTKRKMI
HEGPLVWKVN RDKSIDLYTL LLEDILVLLQ KQDDRLVLR HSKILASTAD SKHTFSPVIK
LSTVLVRQVA TDNKALFVIS MSDNGAQIYE LVAQTVSEKT VWQDLICRMA ASVKEQSTKP
IPLQPPPPCE GDNDEEPAK LKVEHHDLSV AGLQSPDRVL GLESPLISSK PQSHSLNTPG
KSAAEHLFVT ATQFAKEQHA NGALKEGDGG YPVTIPGPHL PVSEERWALD ALRNLGLLKQ
LLVQQLGLTE KSTQEDWQSF SRYGPASEEV QADSGIRDLE NVKACHAREG QMSFKTGTGD
IATCDSPTS TESCAAQDSV ILASQDSQAS NVLMDHMIL TEMPPAEPE GGLDESGEHF
FDAREHSDD NPSEGDAVK KEEKDVNLRI SGNCLILDGY DAVQESSTDE EVASSFPLQP
VTGIPAVDSS HQQQHSPQNV HPEGVPSPFT PEFLVQRHWR AMEDTCFEIQ SPSCTDSQSQ
ILEYIHKIEA DLEHLKKVEE SYALLCQRLA GSALPDKLSD KS

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 Arhgef12 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.

Product Details

	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 style="list-style-type: none">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:	ARHGEF12
Alternative Name:	Arhgef12 (ARHGEF12 Products)
Background:	May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13). Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13 (By similarity). {ECO:0000250}.
Molecular Weight:	173.2 kDa Including tag.
UniProt:	Q8R4H2
Pathways:	Neurotrophin Signaling Pathway , Regulation of G-Protein Coupled Receptor Protein Signaling

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:	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

Application Details

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