Datasheet for ABIN3089238

ARHGEF12 Protein (AA 2-1544) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	ARHGEF12
Protein Characteristics:	AA 2-1544
Origin:	Human
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 KKQKVERIAS HDFDPTDSSS KKTKSSSEES RSEIYGLVQR CVIIQKDDNG FGLTVSGDNP VFVQSVKEDG AAMRAGVQTG DRIIKVNGTL VTHSNHLEVV KLIKSGSYVA LTVQGRPPGS PQIPLADSEV EPSVIGHMSP IMTSPHSPGA SGNMERITSP VLMGEENNVV HNQKVEILRK MLQKEQERLQ LLQEDYNRTP AQRLLKEIQE AKKHIPQLQE QLSKATGSAQ DGAVVTPSRP LGDTLTVSEA ETDPGDVLGR TDCSSGDASR PSSDNADSPK SGPKERIYLE ENPEKSETIQ DTDTQSLVGS PSTRIAPHII GAEDDDFGTE HEQINGQCSC FQSIELLKSR PAHLAVFLHH VVSQFDPATL LCYLYSDLYK HTNSKETRRI FLEFHQFFLD RSAHLKVSVP DEMSADLEKR RPELIPEDLH RHYIQTMQER VHPEVQRHLE DFRQKRSMGL TLAESELTKL DAERDKDRLT LEKERTCAEQ IVAKIEEVLM TAQAVEEDKS STMQYVILMY MKHLGVKVKE PRNLEHKRGR IGFLPKIKQS MKKDKEGEEK GKRRGFPSIL GPPRRPSRHD NSAIGRAMEL QKARHPKHLS TPSSVSPEPQ DSAKLRQSGL ANEGTDAGYL PANSMSSVAS GASFSQEGGK ENDTGSKQVG ETSAPGDTLD GTPRTLNTVF DFPPPPLDQV

QEEECEVERV TEHGTPKPFR KFDSVAFGES QSEDEQFEND LETDPPNWQQ LVSREVLLGL KPCEIKRQEV INELFYTERA HVRTLKVLDQ VFYQRVSREG ILSPSELRKI FSNLEDILQL HIGLNEQMKA VRKRNETSVI DQIGEDLLTW FSGPGEEKLK HAAATFCSNQ PFALEMIKSR QKKDSRFQTF VQDAESNPLC RRLQLKDIIP TQMQRLTKYP LLLDNIAKYT EWPTEREKVK KAADHCRQIL NYVNQAVKEA ENKQRLEDYQ RRLDTSSLKL SEYPNVEELR NLDLTKRKMI HEGPLVWKVN RDKTIDLYTL LLEDILVLLQ KQDDRLVLRC HSKILASTAD SKHTFSPVIK LSTVLVRQVA TDNKALFVIS MSDNGAQIYE LVAQTVSEKT VWQDLICRMA ASVKEQSTKP IPLPQSTPGE GDNDEEDPSK LKEEQHGISV TGLQSPDRDL GLESTLISSK PQSHSLSTSG KSEVRDLFVA ERQFAKEQHT DGTLKEVGED YQIAIPDSHL PVSEERWALD ALRNLGLLKQ LLVQQLGLTE KSVQEDWQHF PRYRTASQGP QTDSVIQNSE NIKAYHSGEG HMPFRTGTGD IATCYSPRTS TESFAPRDSV GLAPQDSQAS NILVMDHMIM TPEMPTMEPE GGLDDSGEHF FDAREAHSDE NPSEGDGAVN KEEKDVNLRI SGNYLILDGY DPVQESSTDE EVASSLTLQP MTGIPAVEST HQQQHSPQNT HSDGAISPFT PEFLVQQRWG AMEYSCFEIQ SPSSCADSQS QIMEYIHKIE ADLEHLKKVE ESYTILCQRL AGSALTDKHS DKS

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 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 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.

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: 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. {ECO:0000269|PubMed:11094164}.
Molecular Weight:	174.1 kDa Including tag.
UniProt:	Q9NZN5
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:	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

Application Details

	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

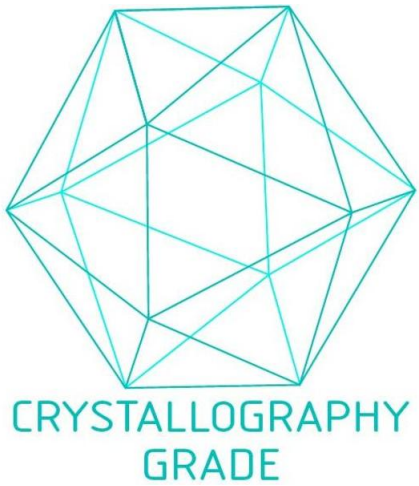

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process