

Datasheet for ABIN7552379

ARHGEF1 Protein (AA 1-912) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ARHGEF1
Protein Characteristics:	AA 1-912
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ARHGEF1 Protein expressed in mammalian cells.
Sequence:	MEDFARGAAS PGPSRPGLVP VSIIGAEDD FENELETNSE EQNSQFQSLE QVKRRPAHLM ALLQHVALQF EPGPLLCLH ADMLGSLGPK EAKKAFLDY HSFLEKTAVL RVPVPPNVAF ELDRTRADLI SEDVQRRFVQ EVVQSQQVAV GRQLEDFRSK RLMGMTPWEQ ELAQLEAWVG RDRASYEARE RHVAERLLMH LEEMQHTIST DEEKSAAVVN AIGLYMRHLG VRTKSGDKKS GRNFFRKKVM GNRRSDEPAK TTKGLSSILD AARWNRGEPQ VPDFRHLKAE VDAEKPGATD RKGGVGMPSR DRNIGAPGQD TPGVSLHPLS LDSPDREPGA DAPLELGDS PPGPMSLES APPESTDEGA ETESPEPGDE GEPGRSGLEL EPEPPGWRE LVPPDTLHSL PKSQVKRQEV ISELLVTEAA HVRMLRVLHD LFFQPMAECL FFPLEELQNI FPSLDELIEV HSLFLDRLMK RRQESGYLIE EIGDVLLARF DGAEGSWFQK ISSRFCSRQS FALEQLKAKQ RKDPRFCFV QEAESRPRCR RLQLKDMIPT EMQRLTKYPL LLQSIGQNT EPTEREKVEL AAECREILH HVNQAVRDME DLLRLKDYQR RLDLSHLRQS SDPMLSEFKN LDITKKKLVH EGPLTWRVTK

Product Details

DKAVEVHVLL LDDLLLLLQR QDERLLKSH SRTLTPDPG KTMLRPVLR L TSAMTREVAT
DHKAFYVLF TWDQEAQIYEL VAQTVSERKN WCALITETAG SLKVPAPASR PKPRPSPSST
REPLSSSEN GNGGRETSPA DARTERILSD LLPFCRPGPE GQLAATALRK VLSLKQLLFP
AEEDNGAGPP RDGDGVPGGG PLSPARTQEI QENLLSLEET MKQLEEEEEE FCRLRPLLSQ
LGGNSVPQPG CT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

ARHGEF1

Alternative Name:

ARHGEF1 ([ARHGEF1 Products](#))

Background:

Rho guanine nucleotide exchange factor 1 (115 kDa guanine nucleotide exchange factor) (p115-RhoGEF) (p115RhoGEF) (Sub1.5),FUNCTION: Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits (PubMed:9641915, PubMed:9641916). Acts as a GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase (PubMed:9641915, PubMed:9641916, PubMed:8810315, PubMed:30521495). Activated G alpha

Target Details

13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain (PubMed:9641916). This GEF activity is inhibited by binding to activated GNA12 (PubMed:9641916). Mediates angiotensin-2-induced RhoA activation (PubMed:20098430). {ECO:0000269|PubMed:20098430, ECO:0000269|PubMed:30521495, ECO:0000269|PubMed:8810315, ECO:0000269|PubMed:9641915, ECO:0000269|PubMed:9641916}.

Molecular Weight: 102.4 kDa

UniProt: [Q92888](#)

Pathways: [Neurotrophin Signaling Pathway](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Thromboxane A2 Receptor 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months