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Datasheet for ABIN3135854
ARHGAP10 Protein (AA 1-786) (Strep Tag)

Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | ARHGAP10 |
| Protein Characteristics: | AA 1-786 |
| Origin: | Mouse |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ARHGAP10 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MGLQPLEFSD CYLDSPWFRE RIRAHEAELE RTNKFIKELI KDGKNLISAT KLSLAAQRKF
AHSLRDFKFE FIGDAETDDE RCIDASLREF SNFLKNLEEQ REIMALSVTE TLIKPLEKFR
KEQLGAVKEE KKKFDKETEK NYSLIDKHLT LSARKKDSHL QEADLQVEQN RQHFYELSLE
YVCKLQEIQE RKKFEFVEPM LSFFQGMFTF YHQGHESKD FNHYKMELQI NIQNTRNRF
GTRSEVEELM NKIRQNPQDQ KRASQFTAEG YLYVQEKRPA PFGSSWVKHY CMYRKTAKKF
NMIPFEHRSG GKLGDGEAFF LKECTKRHMD STDRRFCFDI EAADRPVPL TVQAFSEER
KQWLEALGGK EALFHTFNRA IVPREPGAQ LDKMGFTILR KCISAVETRG INDQGLYRVV
GVSSKVQRL SMLMDVKMCN ELDLENSADW EVKTVTSALK QYLRSLPEPL MTYELHRDFI
VPAKSGSPES RVNAIHLVH KLPEKNKEML DILVKHLTNV SSKSQNLMT VANLGVVFGP
TLMRPQEETV AAIMDLKFQN IVVEILIEBH EKIFRTSPDT TFAEPTCLSA SPPNAPPRQS
KRQGQRTKRP VAVYNLCLEL EEGDSPSPLK EDPPSSSQDS LSTPSPTTSA AHGPPGLDGN
HLAADGGSCG DATATTPSQT RPSMVQWLNLM QSPTTPSSNP AGTPPSPRMS PFPLSPAASI

VDKLPECVIN RKARAVYPCE AEHSSELSFE IGAIFEDVQT SREPGWLEGT LNGKRGLIPQ NYVKLL

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

Product Details

(ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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: ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target: ARHGAP10

Alternative Name: Arhgap10 ([ARHGAP10 Products](#))

Background: Rho GTPase-activating protein 10 (PH and SH3 domain-containing rhoGAP protein) (PS-GAP) (PSGAP) (Rho-type GTPase-activating protein 10),FUNCTION: GTPase-activating protein that catalyzes the conversion of active GTP-bound Rho GTPases to their inactive GDP-bound form, thus suppressing various Rho GTPase-mediated cellular processes (PubMed:11238453). Also converts Cdc42 to an inactive GDP-bound state (By similarity). Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases (PubMed:11238453). Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell death (PubMed:15471851). Associates with MICAL1 on the endosomal membrane to promote Rab8-Rab10-dependent tubule extension. After dissociation with MICAL1, recruits WDR44 which connects the endoplasmic reticulum (ER) with the endosomal tubule, thereby participating in the export of a subset of neosynthesized proteins (By similarity).
{ECO:0000250|UniProtKB:A1A4S6, ECO:0000269|PubMed:11238453, ECO:0000269|PubMed:15471851}.

Molecular Weight: 89.4 kDa

UniProt: [Q6Y5D8](#)

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.

Application Details

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During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)