Datasheet for ABIN3094933

RASA1 Protein (AA 1-1047) (Strep Tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	RASA1
Protein Characteristics:	AA 1-1047
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RASA1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MMAAEAGSEE GGPVTAGAGG GGAAAGSSAY PAVCRVKIPA ALPVAAAPYP GLVETGVAGT LGGGAALGSE FLGAGSVAGA LGGAGLTGGG TAAGVAGAAA GVAGAAVAGP SGDMALTKLP TSLLAETLGP GGGFPPLPPP PYLPPLGAGL GTVDEGDSLD GPEYEEEEVA IPLTAPPTNQ WYHGKLDRTI AEERLRQAGK SGSYLIRESD RRPGSFVLSF LSQMNVVNHF RIIAMCGDYY IGGRRFSSLS DLIGYYSHVS CLLKGEKLLY PVAPPEPVED RRRVRAILPY TKVPDTDEIS FLKGDMFIVH NELEDGWMWV TNLRTDEQGL IVEDLVEEVG REEDPHEGKI WFHGKISKQE AYNLLMTVGQ VCSFLVRPSD NTPGDYSLYF RTNENIQRFK ICPTPNNQFM MGGRYYNSIG DIIDHYRKEQ IVEGYYLKEP VPMQDQEQVL NDTVDGKEIY NTIRRKTKDA FYKNIVKKGY LLKKGKGKRW KNLYFILEGS DAQLIYFESE KRATKPKGLI DLSVCSVYVV HDSLFGRPNC FQIVVQHFSE EHYIFYFAGE TPEQAEDWMK GLQAFCNLRK SSPGTSNKRL RQVSSLVLHI EEAHKLPVKH FTNPYCNIYL NSVQVAKTHA REGQNPVWSE EFVFDDLPPD INRFEITLSN KTKKSKDPDI LFMRCQLSRL QKGHATDEWF LLSSHIPLKG IEPGSLRVRA RYSMEKIMPE

EEYSEFKELI LQKELHVVYA LSHVCGQDRT LLASILLRIF LHEKLESLLL CTLNDREISM EDEATTLFRA TTLASTLMEQ YMKATATQFV HHALKDSILK IMESKQSCEL SPSKLEKNED VNTNLTHLLN ILSELVEKIF MASEILPPTL RYIYGCLQKS VQHKWPTNTT MRTRVVSGFV FLRLICPAIL NPRMFNIISD SPSPIAARTL ILVAKSVQNL ANLVEFGAKE PYMEGVNPFI KSNKHRMIMF LDELGNVPEL PDTTEHSRTD LSRDLAALHE ICVAHSDELR TLSNERGAQQ HVLKKLLAIT ELLQQKQNQY TKTNDVR

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.

Product Details

	• 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 (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)
Grade:	Crystallography grade

Target Details

Target:	RASA1
Alternative Name:	RASA1 (RASA1 Products)
Background:	Ras GTPase-activating protein 1 (GAP) (GTPase-activating protein) (RasGAP) (Ras p21 protein activator) (p120GAP),FUNCTION: Inhibitory regulator of the Ras-cyclic AMP pathway. Stimulates the GTPase of normal but not oncogenic Ras p21, this stimulation may be further increased in the presence of NCK1. {ECO:0000269|PubMed:11389730, ECO:0000269|PubMed:8360177}.
Molecular Weight:	116.4 kDa
UniProt:	P20936
Pathways:	Regulation of Actin Filament Polymerization, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals

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

Comment:	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!
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)

Images

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