Datasheet for ABIN3094868

RASIP1 Protein (AA 1-963) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	RASIP1
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RASIP1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MLSGERKEGG SPRFGKLHLP VGLWINSPRK QLAKLGRRWP SAASVKSSSS DTGSRSSEPL PPPPPHVELR RVGAVKAAGG ASGSRAKRIS QLFRGSGTGT TGSSGAGGPG TPGGAQRWAS EKKLPELAAG VAPEPPLATR ATAPPGVLKI FGAGLASGAN YKSVLATARS TARELVAEAL ERYGLAGSPG GGPGESSCVD AFALCDALGR PAAAGVGSGE WRAEHLRVLG DSERPLLVQE LWRARPGWAR RFELRGREEA RRLEQEAFGA ADSEGTGAPS WRPQKNRSRA ASGGAALASP GPGTGSGAPA GSGGKERSEN LSLRRSVSEL SLQGRRRRQQ ERRQQALSMA PGAADAQIGT ADPGDFDQLT QCLIQAPSNR PYFLLLQGYQ DAQDFVVYVM TREQHVFGRG GNSSGRGGSP APYVDTFLNA PDILPRHCTV RAGPEHPAMV RPSRGAPVTH NGCLLLREAE LHPGDLLGLG EHFLFMYKDP RTGGSGPARP PWLPARPGAT PPGPGWAFSC RLCGRGLQER GEALAAYLDG REPVLRFRPR EEEALLGEIV RAAAAGSGDL PPLGPATLLA LCVQHSAREL ELGHLPRLLG RLARLIKEAV WEKIKEIGDR QPENHPEGVP EVPLTPEAVS VELRPLMLWM ANTTELLSFV QEKVLEMEKE ADQEDPQLCN DLELCDEAMA LLDEVIMCTF QQSVYYLTKT LYSTLPALLD

	SNPFTAGAEL PGPGAELGAM PPGLRPTLGV FQAALELTSQ CELHPDLVSQ TFGYLFFFSN ASLLNSLMER GQGRPFYQWS RAVQIRTNLD LVLDWLQGAG LGDIATEFFR KLSMAVNLLC VPRTSLLKAS WSSLRTDHPT LTPAQLHHLL SHYQLGPGRG PPAAWDPPPA EREAVDTGDI FESFSSHPPL ILPLGSSRLR LTGPVTDDAL HRELRRLRRL LWDLEQQELP ANYRHGPPVA TSP **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 RASIP1 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. 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	RASIP1
Alternative Name:	RASIP1 (RASIP1 Products)
Background:	Required for the proper formation of vascular structures that develop via both vasculogenesis and angiogenesis. Acts as a critical and vascular-specific regulator of GTPase signaling, cell architecture, and adhesion, which is essential for endothelial cell morphogenesis and blood vessel tubulogenesis. Regulates the activity of Rho GTPases in part by recruiting ARHGAP29 and suppressing RhoA signaling and dampening ROCK and MYH9 activities in endothelial cells (By similarity). May act as effector for Golgi-bound HRAS and other Ras-like proteins. May promote HRAS-mediated transformation. Negative regulator of amino acid starvation-induced autophagy. {ECO:0000250, ECO:0000269|PubMed:15031288, ECO:0000269|PubMed:22354037}.
Molecular Weight:	104.4 kDa Including tag.
UniProt:	Q5U651

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 gurantee 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 receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

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

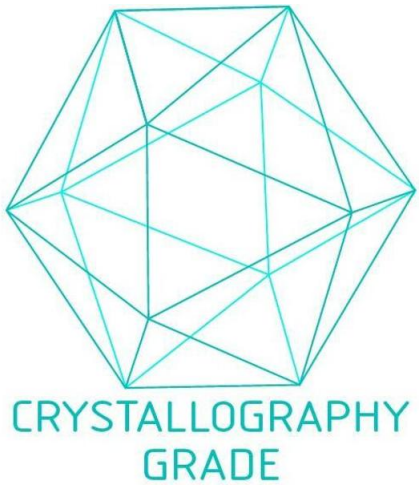

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process