Datasheet for ABIN3136742

Angiomotin Protein (AMOT) (AA 1-1126) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	Angiomotin (AMOT)
Protein Characteristics:	AA 1-1126
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiomotin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MRSSDDQPSG GTTVLQRLLQ EQLRYGNPSE NRSLLAIHQQ ATGNSSPFST GSGNQGPQND VLSSQDHHQQ QLVAHPARQE PQGQEIQSEN GVMEKQLSPR MQNNEELPTY EEAKVQSQYF RGQQHASVGA AFYVTGVTNQ KMRTEGRPSV QRLTPGKMHQ DEGLRDLKQG HVRSLSERLM QMSLATSGVK AHPPVTSAPL SPPQPNDLYK NATSSSEFYK AQGPPPSQHS LKGMEHRGPP PEYPFKGVPS QSVVCKSQEP GHFYSEHRLN QPGRTEGQLM RYQHPPEYGA ARATQDISSL SLSARNSQPH SPTSSLTAGA SSLPLLQSPP STRLPPGQHL VSNQGDHSAH LSRHQQHLLS SQSHQGDHYR HAQASLTSAQ QQPGEAYSAM PRAQQSASYQ PMPADPFAMV SRAQQMVEIL SDENRNLRQE LDGCYEKVAR LQKVETEIQR VSEAYENLVK SSSKREALEK AMRNKLEGEI RRMHDFNRDL RDRLETANKQ LAEKEYEGSE DTRKTISQLF AKHKENQREK EKLEAELATA RSTNEDQRRH IEIRDQALSN AQAKVVKLEE ELKKKQVYVD KVEKMQQALV QLQAACEKRE QLEHRLRTRL ERELESLRIQ QRQGNSQPTN ASEYNAAALM ELLREKEERI LALEADMTKW EQKYLEENVM RHFALDAAAT VAAQRDTTVI SHSPNTSYDT ALEARIQKEE EEILMANKRC

	LDMEGRIKTL HAQIIEKDAM IKVLQQRSRK EPSKTEQLSS MRPAKSLMSI SNAGSGLLAH SSTLTGAPIM EEKRDDKSWK GSLGVLLGGD YRVEPVPSTP SPVPPSTPLL SAHSKTGSRD CSTQTERGPE STKTAAVTPI SAPMAGPVAA AAPAAAINAT AATNTATAAT NTTIMVAAAP VAVAAVAAPA AAAATPSPAN AAALAAAAAP ATSVSAATSV SAANSISPAA PVAPAAVVPP AAPVSPAAAV QIPAAASLTP ATVSPTAATA TAAVAAATTA AITAAAAAAT TAIQVAPATS APVPSPASIP APATAQASAP TPTQASTPAP TEPPSPVPTP TPALVQTEGP ANPGASSGPR RLSTPNLMCN PDKPDAPAFH SSTLERKTPI QILGQEPDAE MVEYLI **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. • Mouse Amot 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

Product Details

	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:	Angiomotin (AMOT)
Alternative Name:	Amot (AMOT Products)
Background:	Plays a central role in tight junction maintenance via the complex formed with ARHGAP17, which acts by regulating the uptake of polarity proteins at tight junctions. Appears to regulate endothelial cell migration and tube formation. May also play a role in the assembly of endothelial cell-cell junctions (By similarity). {ECO:0000250}.
Molecular Weight:	121.9 kDa Including tag.
UniProt:	Q8VHG2
Pathways:	Cell-Cell Junction Organization, Regulation of Cell Size

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:	Protein has not been tested for activity yet. 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