

Datasheet for ABIN3136742

Angiotensin Protein (AMOT) (AA 1-1126) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Angiotensin (AMOT)
Protein Characteristics:	AA 1-1126
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiotensin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	ALICE®
Sequence:	<p>MRSSDDQPSG GTTVLQRLQ EQLRYGNPSE NRSLLAIHQQ ATGNSSPFST GSGNQGPQND</p> <p>VLSSQDHHQQLVAHPARQE PQGQEIQSEN GVMEKQLSPR MQNNEELPTY EEAQVQSQYF</p> <p>RGQQHASVGA AFYVTGVNTQ KMRTEGRPSV QRLTPGKMHQ DEGLRDLKQG HVRSLSERLM</p> <p>QMSLATSGVK AHPPVTSAPL SPPQPNPLYK NATSSSEFYK AQGPPPSQHS LKGMHRGPP</p> <p>PEYPFKGVPS QSVVCKSQEP GHFYSEHRLN QPGRTEGQLM RYQHPPEYGA ARATQDISSL</p> <p>SLSARNSQPH SPTSSLTAGA SSLPLLQSP STRLPPGQHL VSNQGDHSAH LSRHQHLLS</p> <p>SQSHQGDHYR HAQASLTSAQ QQPGEAYSAM PRAQQSASYQ PMPADPFAMV SRAQQMVEIL</p> <p>SDENRNLRQE LDGCYEKVAR LQKVETEIQR VSEAYENLVK SSSKREALEK AMRNKLEGEI</p> <p>RRMHDFNRDL RDRLETANKQ LAEKEYEGSE DTRKTISQLF AKHKNQREK EKLEAELATA</p> <p>RSTNEDQRRH IEIRDQALSN AQAKVVKLEE ELKKKQVYVD KVEKMQQALV QLQAACEKRE</p> <p>QLEHRLRTRL ERELESLRIQ QRQNSQPTN ASEYNAAALM ELLREKEERI LALEADMTKW</p>

EQKYLEENVM RHFALDAAAT VAAQRDTTVI SHSPNTSYDT ALEARIQKEE EEILMANKRC
LDMEGRIKTL HAQIEKDAM IKVLQQRSRK EPSKTEQLSS MRPAKSLMSI SNAGSGLLAH
SSTLTGAPIM EEKRDDKSWK GSLGVLLGGD YRVEVPVSTP SPVPPSTPLL SAHSKTGSRD
CSTQTERGPE STKTAAVTPI SAPMAGPVAA AAPAAAINAT AATNTATAAT NTTIMVAAAP
VAVAAVAAPA AAAATPSPAN AAALAAAAAP ATSVSAATSV SAANSISPAA PVAPAAVPP
AAPVSPAAV QIPAAASLTP ATVSPTAATA TAAVAAATTA AITAAAAAAT TAIQVAPATS
APVPSPASIP APATAQASAP TPTQASTPAP TEPPSPVPTP TPALVQTEGP ANPGASSGPR
RLSTPNLMCN PDKPDAPAFH SSTLERKTPI QILGQEPDAE MVEYLI

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: Angiotensin (ANG)

Alternative Name: Angiotensin (ANG Products)

Background: Angiotensin,FUNCTION: 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: 120.9 kDa

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 guarantee though.

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

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months