

Datasheet for ABIN3092047

DAAM1 Protein (AA 1-1078) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	DAAM1
Protein Characteristics:	AA 1-1078
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAAM1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MAPRKRGGRG ISFIFCCFRN NDHPEITYRL RNDSNFALQT MEPALPMPV EELDVMFSEL</p> <p>VDELDLTDKH REAMFALPAE KKWQIYCSKK KDQEENKGAT SWPEFYIDQL NSMAARKSLL</p> <p>ALEKEEEEEER SKTIESLKTA LRTKPMRFVT RFIDLDGLSC ILNFLKTMDY ETSESRIHTS</p> <p>LIGCIKALMN NSQGRAHVLA HSESINVIAQ SLSTENIKTK VAVLEILGAV CLVPGGHKKV</p> <p>LQAMLHYQKY ASERTRFQTL INDLDKSTGR YRDEVSLKTA IMSFINAVLS QGAGVESLDF</p> <p>RLHLRYEFLM LGIQPVIDKL REHENSTLDR HLDFFEMLRN EDELEFAKRF ELVHIDTKSA</p> <p>TQMFELTRKR LTHSEAYPHF MSILHHCLQM PYKRSGNTVQ YWLLLDRIQ QIVIQNDKGQ</p> <p>DPDSTPLENF NIKNVVRMLV NENEVKQWKE QAEKMRKEHN ELQQKLEKKE RECDAKTQEK</p> <p>EEMMQTLNKM KEKLEKETTE HKQVKQQVAD LTAQLHELRS RAVCASIPGG PSPGAPGGPF</p> <p>PSSVPGSLLP PPPPPPLPGG MLPPPPPLP PGGPPPPPGP PPLGAIMPPP GAPMGLALKK</p> <p>KSIPQPTNAL KSFNWSKLPE NKLEGTWTE IDDTKVFKIL DLEDLERTFS AYQRQQDFFV</p>

NSNSKQKEAD AIDDTLSSKL KVKELSVIDG RRAQNCNILL SRLKLSNDEI KRAILTMDEQ
EDLPKDMLEQ LLKFVPEKSD IDLLEEHKHE LDRMAKADRF LFEMSRINHY QQRLQSLYFK
KKFAERVAEV KPKVEAIRSG SEEVFRSGAL KQLLEVVLAF GNYMKNKGQRG NAYGFKISSL
NKIADTKSSI DKNITLLHYL ITIVENKYPS VLNLNEELRD IPQAAKVNMT ELDKEISTLR
SGLKAVETEL EYQKSQPPQP GDKFVSVVSQ FITVASFSFS DVEDLLAEAK DLFTKAVKHF
GEEAGKIQPD EFFGIFDQFL QAVSEAKQEN ENMRKKKEEE ERRARMEAQL KEQRERERKM
RKAKENSEES GEFDDLVSAL RSGEVFDKDL SKLKRNRKRI TNQMTDSSRE RPITKLN

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:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- 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:	DAAM1
Alternative Name:	DAAM1 (DAAM1 Products)
Background:	<p>Disheveled-associated activator of morphogenesis 1,FUNCTION: Binds to disheveled (Dvl) and Rho, and mediates Wnt-induced Dvl-Rho complex formation. May play a role as a scaffolding protein to recruit Rho-GDP and Rho-GEF, thereby enhancing Rho-GTP formation. Can direct nucleation and elongation of new actin filaments. Involved in building functional cilia (PubMed:16630611, PubMed:17482208). Involved in the organization of the subapical actin network in multiciliated epithelial cells (By similarity). Together with DAAM2, required for myocardial maturation and sarcomere assembly (By similarity).</p> <p>{ECO:0000250 UniProtKB:B0DOB5, ECO:0000250 UniProtKB:Q8BPM0, ECO:0000269 PubMed:16630611, ECO:0000269 PubMed:17482208}.</p>
Molecular Weight:	123.5 kDa
UniProt:	Q9Y4D1
Pathways:	WNT Signaling

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 <i>Nicotiana tabacum</i> 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.

Application Details

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. 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