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Datasheet for ABIN3088473

**ACIN1 Protein (AA 1-1341) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	ACIN1
Protein Characteristics:	AA 1-1341
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACIN1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	<p>MWRRKHPRTS GGTRGVLSGN RGVEYGSGRG HLGTFEGRWR KLPKMPEAVG TDPSTSRKMA ELEEVTLDGK PLQALRVTDL KAALEQRGLA KSGQKSALVK RLKGALMLEN LQKHSTPHAA FQPNSQIGEE MSQNSFIKQY LEKQQELLRQ RLEREAREAA ELEEASAESE DEMIHPEGVA SLLPPDFQSS LERPELELSR HSPRKSSSIS EEKGDSDEK PRKGERRSSR VRQARAAKLS EGSQPAEEEE DQETPSRNLR VRADRNKTE EEEEEEEEE EDDEEEEGDD EGQKSREAPI LKEFKEEGEE IPRVKPEEMM DERPKTRSQE QEVLERGGRF TRSQEEARKS HLARQQQEKE MKTTSPLEEE EREIKSSQGL KEKSKSPSP RLTEDRKKAS LVALPEQTAS EEETPPPLLT KEASSPPPHP QLHSEEEIEP MEGPAPAVLI QLSPPNTDAD TRELLVSQHT VQLVGGLSPL SSPSDTKAES PAEKVPEESV LPLVQKSTLA DYSAQKDLEP ESDRSAQLPL LKIEELALAK GITEECLKQP SLEQKEGRRA SHTLLPSHRL KQSADSSSSR SSSSSSSSSR SRSRSPDSSG SRSHSPLSRK QRDVAQARTH ANPRGRPKMG SRSTSESRSR SRSRSRSASS NSRKSLSPGV SRDSSTSYTE TKDPSSGQEV ATPPVPQLQV CEPKERTSTS SSSVQARRLS QPESAEKHVT</p>
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QRLQPERGSP KKCEAEEAEP PAATQPQTSE TQTSHLPESE RIHHTVEEKE EVTMDTSEN  
PENDVPEPPM PIADQVSND RPEGSVEDEE KKESSLPKSF KRKISVVSAT KGVPAAGNSDT  
EGGQPGRKRR WGASTATTQK KPSISITTES LKSLIPDIKP LAGQEAVVDL HADDSRISED  
ETERNGDDGT HDKGLKICRT VTQVPAEGQ ENGQREEEEE EKEPEAEPV PPQVSVEVAL  
PPPAEHEVKK VTLGDTLRR SISQQKSGVS ITIDDPVRTA QVSPPRGKI SNIVHISNLV  
RPFTLGQLKE LLGRTGTLVE EAFWIDKIKS HCFVTYSTVE EAVATRTALH GVKWPQSNPK  
FLCADYAEQD ELDYHRGLLV DRPSETKTEE QGIPRPLHPP PPPVQPPQH PRAEQREQER  
AVREQWAERE REMERRERTR SEREWDRDKV REGPRSRSR RDRRRKERAK SKEKKSEKKE  
KAQEPPAKL LDDLFRKTKA APCIYWLPLT DSQIVQKEAE RAERAKEREK RRKEQEEEEQ  
KERKEAERE RNRQLEREKR REHSRERDRE RERERERDRG DRDRDRERDR ERGRERDRRD  
TKRHSRSRSR STPVRDRGGR R

**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

Product Details

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.
- 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:	ACIN1
Alternative Name:	ACIN1 ( <a href="#">ACIN1 Products</a> )
Background:	Apoptotic chromatin condensation inducer in the nucleus (Acinus),FUNCTION: Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets, ACIN1 confers RNA-binding to the complex. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes), specifically inhibits

## Target Details

formation of proapoptotic isoforms such as Bcl-X(S), the activity is different from the established EJC assembly and function. Induces apoptotic chromatin condensation after activation by CASP3. Regulates cyclin A1, but not cyclin A2, expression in leukemia cells. {ECO:0000269|PubMed:10490026, ECO:0000269|PubMed:12665594, ECO:0000269|PubMed:18559500, ECO:0000269|PubMed:22203037, ECO:0000269|PubMed:22388736}.

Molecular Weight: 151.9 kDa

UniProt: [Q9UKV3](#)

## 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 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.

## Handling

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Expiry Date: Unlimited (if stored properly)