

Datasheet for ABIN3089814

## Advillin Protein (AVIL) (AA 1-819) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Advillin (AVIL)
Protein Characteristics:	AA 1-819
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Advillin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	MPLTSAFRAV DNDPGIIVWR IEKMELALVP VSAHGNFYEG DCYVILSTRR VASLLSQDIH FWIGKDSSQD EQSCAAIYTT QLDDYLGGS VQHREVQYHE SDTFRGYFKQ GIIYKQGGVA SGMKHVETNT YDVKRLLHV KGRNIRATEV EMSWDSFNRG DVFLDLGKV IIQWNGPESN SGERLKAMLL AKDIRDRERG GRAKIGVIEG DKEAASPELM KVLQDTLGRR SIIKPTVPDE IIDQKQKSTI MLYHISDSAG QLAVTEVATR PLVQDLLNHD DCYILDQSGT KIYVWKGKGA TKAEKQAAMS KALGFIMKS YPSSTNVETV NDGAESAMFK QLFQKWSVKD QTMGLGKTFS IGKIAKVFQD KFDVTLLHTK PEVAAQERMV DDGNGKVEVW RIENLELVPV EYQWYGGFFYG GDCYLVLYTY EVNGKPHHIL YIWQGRHASQ DELAASAYQA VEVD RQFDGA AVQVRVRMGT EPRHFMAIFK GKL VIFEGGT SRKGNAEPDP PVRLFQIHGN DKSNTKAVEV PAFASSLNSN DVFLLR TQAE HYLWYKGKSS GDERAMAKEL ASLLCDGSEN TVAEGQEP AE FWDLLGGKTP YANDKRLQQE ILDVQSRLFE CSNKTGQFVW TEITDFTQDD LNPTDVMLLD TWDQVFLWIG

AEANATEKES ALATAQQYLH THPSGRDPDT PILIIKQGF E PPIFTGWFLA WDPNIWSAGK  
TYEQLKEELG DAAAIMRITA DMKNATLSLN SNDSEPKYYP IAVLLKNQNPQ ELPEDVNPAK  
KENYLSEQDF VSVFGITRGQ FAALPGWKQL QMKKEKGLF

**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.**

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### 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.
- 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	Advillin (AVIL)
Alternative Name:	AVIL ( <a href="#">AVIL Products</a> )
Background:	Advillin (p92),FUNCTION: Ca(2+)-regulated actin-binding protein which plays an important role in actin bundling (PubMed:29058690). May have a unique function in the morphogenesis of neuronal cells which form ganglia. Required for SREC1-mediated regulation of neurite-like outgrowth. Plays a role in regenerative sensory axon outgrowth and remodeling processes after peripheral injury in neonates. Involved in the formation of long fine actin-containing filopodia-like structures in fibroblast. Plays a role in ciliogenesis. In podocytes, controls lamellipodia formation through the regulation of EGF-induced diacylglycerol generation by PLCE1 and ARP2/3 complex assembly (PubMed:29058690). {ECO:0000269 PubMed:20393563, ECO:0000269 PubMed:29058690}.
Molecular Weight:	92.0 kDa
UniProt:	<a href="#">O75366</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a>

## 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:	<p>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.</p> <p>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</p>

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