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Datasheet for ABIN3135269

## Scinderin Protein (SCIN) (AA 1-715) (Strep Tag)

### Overview

Quantity:	1 mg
Target:	Scinderin (SCIN)
Protein Characteristics:	AA 1-715
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This Scinderin protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MAQELQHPEF ARAGQQAGLQ VWRVEKLELV PVPQGAYGDF YVGDAYLVLH TTKSSRGFSY  
RLHFWLGKEC SQDESTAAAI FTVMDDYLG GKPVQSRELQ GYESTDFVGY FKGGLKYKAG  
GVASGLNHVL TNDLTAKRLH HVKGRRVRA TEVPLSWESF NKGDCFIIDL GTEIQWCGS  
SCNKYERLKA SQVAIGIRDN ERKGRSQLIV VEEGSEPEL MKVLGRKPEL PDGDNDDVV  
ADISNRKMAK LYMVSDASGS MKVTLVAEEN PFSMGMLLSE ECFILDHGAA KQIFVWKGN  
ANPQERKTAM KTAEEFLQKM KYSTNTQIQV LPEGGETPIF KQFFKDWKDK DQSDGFGKVV  
ITEKVAQIKQ IPFDASKLHS SPQMAAQHNM VDDGSGGVEI WRVENSGRVQ IDPSSYGEFY  
GGDCYIILYT YPRGQIITW QGANATRDEL TMSAFLTVQL DRSLGGQAVQ VRVSQGKEPA  
HLLSLFKDKP LIYKNGTSK KEGQAPAPPT RLFQVRRNLA SITRIVEVDV DANSLNSNDT  
FVLKLPNNNG FIWIGKGASQ EEEKGAEYVA DVLKCKASRI QEGKEPEEFW NSLGGRGDYQ  
TSPLLETRAE DHPRLYGCS NKTGRFIIIE VPGEFTQDDL AEDDVMLLDA WEQIFIWIGK  
DANEVEKKES VKSAKMYLET DPSGRDKRTP IVIIKQGHEP PTFTGWFLGW DSSRW

**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 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 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®):

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## Product Details

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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.

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Purity:  $\geq 80\%$  as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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Target: Scinderin (SCIN)

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Alternative Name: Scin ([SCIN Products](#))

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Background: Scinderin (Adseverin) (Gelsolin-like protein),FUNCTION: Ca(2+)-dependent actin filament-severing protein that has a regulatory function in exocytosis by affecting the organization of the microfilament network underneath the plasma membrane (PubMed:9671468). Severing activity is inhibited by phosphatidylinositol 4,5-bis-phosphate (PIP2) (By similarity). In vitro, also has barbed end capping and nucleating activities in the presence of Ca(2+) (PubMed:9671468). Required for megakaryocyte differentiation, maturation, polyploidization and apoptosis with the release of platelet-like particles (By similarity). Plays a role in osteoclastogenesis (OCG) and actin cytoskeletal organization in osteoclasts (PubMed:25275604, PubMed:25681458). Regulates chondrocyte proliferation and differentiation (By similarity). Inhibits cell proliferation and tumorigenesis. Signaling is mediated by MAPK, p38 and JNK pathways (By similarity). {ECO:0000250|UniProtKB:Q28046, ECO:0000250|UniProtKB:Q5ZIV9, ECO:0000250|UniProtKB:Q9Y6U3, ECO:0000269|PubMed:25275604, ECO:0000269|PubMed:25681458, ECO:0000269|PubMed:9671468}., FUNCTION: [Isoform 2]: Fails to nucleate actin polymerization, although it severs and caps actin filaments in a Ca(2+)-dependent manner. {ECO:0000269|PubMed:9671468}.

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Molecular Weight: 80.3 kDa

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UniProt: [Q60604](#)

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Pathways: [Regulation of Actin Filament Polymerization](#)

## Application Details

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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

## Application Details

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guarantee though.

Comment:

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Restrictions:

For Research Use only

## Handling

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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.

Expiry Date:

Unlimited (if stored properly)