

Datasheet for ABIN3095418

## SLFN11 Protein (AA 1-901) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SLFN11
Protein Characteristics:	AA 1-901
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLFN11 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEANQCPLVV EPSYPDLVIN VGEVTLGEEN RKKLQKIQRD QEKERVMAA CALLNSGGGV</p> <p>IRMAKKVEHP VEMGLDLEQS LRELIQSSDL QAFFETKQQG RCFYIFVKSX SSGPFPEDRS</p> <p>VKPRLCSSLYRRSETSV RSMDSREAFK FLKTKRKPKI LEEGPFHKIH KGVYQELPNS</p> <p>DPADPNSDPA DLIFQKDYLE YGEILFPFES QLVEFKQFST KHFQEYVKRT IPEYVPAFAN</p> <p>TGGGYLFIGV DDKSREVLGC AKENVDPDSL RRKIEQAIYK LPCVHFCQPQ RPITFTLKIV</p> <p>NVLKRGELYG YACMIRVNPFC CAVFSEAPN SWIVEDKYVC SLTTEKWVGM MTDTPDLLQ</p> <p>LSEDFECQLS LSSGPPLSRP VYSKKGLEHK KELQQLFSV PPGYLRYTPE SLWRDLISEH</p> <p>RGLEELINKQ MQPFFRGILI FSRSWAVDLN LQEKPGVICD ALLIAQNSTP ILYTILREQD</p> <p>AEGQDYCTRT AFTLKQQLVN MGGYTGVKCV RAKVLCLSPE SSAEALAAV SPMDYPASYS</p> <p>LAGTQHMEAL LQSLVIVLLG FRSLSDQLG CEVLNLLTAQ QYEIFSRSLR KNRELFVHGL</p> <p>PGSGKTIMAM KIMEKIRNVF HCEAHRILYV CENQPLRNFI SDRNICRAET RKTFLRENFE</p>

HIQHIVIDEA QNFRTEGDW YGKAISITRR AKGGPGILWI FLDYFQTSHL DCSGLPPLSD  
QYPREELTRI VRNADPIAKY LQKEMQVIRS NPSFNIPTGC LEVFPEAEWS QGVQGTLRK  
KYLTVEQIMT CVADTCRRFF DRGYSPKDVA VLVSTAKEVE HYKYELLKAM RKKRVVQLSD  
ACDMLGDHIV LDSVRRFSG LERSIVFGIHP RTADPAILPN VLICLASRAK QHLYIFPWGG H

**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.

## Product Details

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: SLFN11

Alternative Name: SLFN11 ([SLFN11 Products](#))

Background: Schlafen family member 11 (EC 3.6.-.-),FUNCTION: Inhibitor of DNA replication that promotes cell death in response to DNA damage (PubMed:22927417, PubMed:26658330, PubMed:29395061). Acts as a guardian of the genome by killing cells with defective replication (PubMed:29395061). Persistently blocks stressed replication forks by opening chromatin across replication initiation sites at stressed replication forks, possibly leading to unwind DNA ahead of the MCM helicase and block fork progression, ultimately leading to cell death (PubMed:29395061). Acts independently of ATR (PubMed:29395061). Also acts as an interferon (IFN)-induced antiviral protein which acts as an inhibitor of retrovirus protein synthesis (PubMed:23000900). Specifically abrogates the production of retroviruses such as human immunodeficiency virus 1 (HIV-1) by acting as a specific inhibitor of the synthesis of retroviruses encoded proteins in a codon-usage-dependent manner (PubMed:23000900). Binds to tRNAs and exploits the unique viral codon bias towards A/T nucleotides (PubMed:23000900). The exact inhibition mechanism is unclear: may either sequester tRNAs, prevent their maturation via post-transcriptional processing or may accelerate their deacylation (PubMed:23000900). Does not inhibit reverse transcription, integration or production and nuclear export of viral RNA (PubMed:23000900). {ECO:0000269|PubMed:22927417, ECO:0000269|PubMed:23000900, ECO:0000269|PubMed:26658330, ECO:0000269|PubMed:29395061}.

Molecular Weight: 102.8 kDa

UniProt: [Q7Z7L1](#)

## 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.

## Application Details

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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 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!</p>
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b></p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months