Datasheet for ABIN3095418

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

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	SLFN11
Protein Characteristics:	AA 1-901
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLFN11 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEANQCPLVV EPSYPDLVIN VGEVTLGEEN RKKLQKIQRD QEKERVMRAA CALLNSGGGV IRMAKKVEHP VEMGLDLEQS LRELIQSSDL QAFFETKQQG RCFYIFVKSW SSGPFPEDRS VKPRLCSLSS SLYRRSETSV RSMDSREAFC FLKTKRKPKI LEEGPFHKIH KGVYQELPNS DPADPNSDPA DLIFQKDYLE YGEILPFPES QLVEFKQFST KHFQEYVKRT IPEYVPAFAN TGGGYLFIGV DDKSREVLGC AKENVDPDSL RRKIEQAIYK LPCVHFCQPQ RPITFTLKIV NVLKRGELYG YACMIRVNPF CCAVFSEAPN SWIVEDKYVC SLTTEKWVGM MTDTDPDLLQ LSEDFECQLS LSSGPPLSRP VYSKKGLEHK KELQQLLFSV PPGYLRYTPE SLWRDLISEH RGLEELINKQ MQPFFRGILI FSRSWAVDLN LQEKPGVICD ALLIAQNSTP ILYTILREQD AEGQDYCTRT AFTLKQKLVN MGGYTGKVCV RAKVLCLSPE SSAEALEAAV SPMDYPASYS LAGTQHMEAL LQSLVIVLLG FRSLLSDQLG CEVLNLLTAQ QYEIFSRSLR KNRELFVHGL PGSGKTIMAM KIMEKIRNVF HCEAHRILYV CENQPLRNFI SDRNICRAET RKTFLRENFE HIQHIVIDEA QNFRTEDGDW YGKAKSITRR AKGGPGILWI FLDYFQTSHL DCSGLPPLSD

QYPREELTRI VRNADPIAKY LQKEMQVIRS NPSFNIPTGC LEVFPEAEWS QGVQGTLRIK KYLTVEQIMT CVADTCRRFF DRGYSPKDVA VLVSTAKEVE HYKYELLKAM RKKRVVQLSD ACDMLGDHIV LDSVRRFSGL ERSIVFGIHP 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.

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.

Product Details

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:	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

Target Details

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.
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.
Expiry Date:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process