antibodies

# Datasheet for ABIN3077173 SLFN12 Protein (AA 1-578) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	SLFN12
Protein Characteristics:	AA 1-578
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLFN12 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MNISVDLETN YAELVLDVGR VTLGENSRKK MKDCKLRKKQ NESVSRAMCA LLNSGGGVIK
	AEIENEDYSY TKDGIGLDLE NSFSNILLFV PEYLDFMQNG NYFLIFVKSW SLNTSGLRIT
	TLSSNLYKRD ITSAKVMNAT AALEFLKDMK KTRGRLYLRP ELLAKRPCVD IQEENNMKAL
	AGVFFDRTEL DRKEKLTFTE STHVEIKNFS TEKLLQRIKE ILPQYVSAFA NTDGGYLFIG
	LNEDKEIIGF KAEMSDLDDL EREIEKSIRK MPVHHFCMEK KKINYSCKFL GVYDKGSLCG
	YVCALRVERF CCAVFAKEPD SWHVKDNRVM QLTRKEWIQF MVEAEPKFSS SYEEVISQIN
	TSLPAPHSWP LLEWQRQRHH CPGLSGRITY TPENLCRKLF LQHEGLKQLI CEEMDSVRKG
	SLIFSRSWSV DLGLQENHKV LCDALLISQD SPPVLYTFHM VQDEEFKGYS TQTALTLKQK
	LAKIGGYTKK VCVMTKIFYL SPEGMTSCQY DLRSQVIYPE SYYFTRRKYL LKALFKALKR
	LKSLRDQFSF AENLYQIIGI DCFQKNDKKM FKSCRRLT
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>During lysate production, the cell wall and other cellular components that are not required fo 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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
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.

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	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:	SLFN12
Alternative Name:	SLFN12 (SLFN12 Products)
Background:	Ribonuclease SLFN12 (EC 3.1) (Schlafen family member 12),FUNCTION: Ribonuclease which
	is part of an E2/17beta-estradiol-induced pro-apoptotic signaling pathway. E2 stabilizes the
	PDE3A/SLFN12 complex in the cytosol, promoting the dephosphorylation of SLFN12 and
	activating its pro-apoptotic ribosomal RNA/rRNA ribonuclease activity. This apoptotic pathway
	might be relevant in tissues with high concentration of E2 and be for instance involved in
	placenta remodeling (PubMed:31420216, PubMed:35104454, PubMed:34272366,
	PubMed:34707099). May play a role in cell differentiation (PubMed:30045019).
	{ECO:0000269 PubMed:30045019, ECO:0000269 PubMed:31420216,
	EC0:0000269 PubMed:34272366, EC0:0000269 PubMed:34707099,
	ECO:0000269 PubMed:35104454}.
Molecular Weight:	67.0 kDa
UniProt:	Q8IYM2
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

Comment:	$\operatorname{ALiCE}^{ extsf{B}}$ , 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

guarantee though.

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Application Details	
	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

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

#### Images

Storage Comment:



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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