

Datasheet for ABIN3095585  
**SPIDR Protein (AA 1-915) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	SPIDR
Protein Characteristics:	AA 1-915
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPIDR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MPRGSRARGS KRKRSWNTEC PSFPGERPLQ VRRAGLRTAG AAASLSEAWL RCGEGFQNTS  
GNPSLTAEK TITEKHLELC PRPKQETTTT KSTSGLTDIT WSSSGSDLSD EDKTLSQLQR  
DELQFIDWEI DSDRAEASDC DEFEDDEGAV EISDCASCAS NQSLTSEKL SELPKPSSIE  
ILEYSSDSEK EDDLLENVLLI DSESPHKYHV QFASDARQIM ERLIDPRTKS TETILHTPQK  
PTAKFPRTPE NSAKKKLLRG GLAERLNLQ NRERSAISLW RHQCISYQKT LSGRKSGVLT  
VKILELHEEC AMQVAMCEQL LGSPATSSSQ SVAPRPGAGL KVLFTKETAG YLRGRPQDTV  
RIFPPWQKLI IPGSGCPVIL NTYFCEKVVA KEDSEKTCEV YCPDIPLPRR SISLAQMFVI  
KGLTNSPEI QVVC SGVATT GTAWTHGHKE AKQRIPTSTP LRDSL LDVVE SQGAASWPGA  
GVRVVVQRVY SLPSRDSTRG QQGASSGHTD PAGTRACLLV QDACGMFGEV HLEFTMSKAR  
QLEGKSCSLV GMKVLQKVTR GRTAGIFSLI DTLWPPAIPL KTPGRDQPC EIKTHLPPPA  
LCYILTAHPN LGQIDIIDED PIYKLYQPPV TRCLRDILQM NDLGTRCSFY ATVIYQKPQL  
KSLLLLEQRE IWLLVTDVTL QTKEERDPR L PKTLLVYVAP LCVLGSEVLE ALAGAAPHSL

FFKDALRDQG RIVCAERTVL LLQKPLLSVV SGASSCELPV PVMLDSLDSA TPVNSICSVQ  
GTVVGVDEST AFSWPVCDMC GNGRLEQRPE DRGAFSCGDC SRVVTSPVLK RHLQVFLDCR  
SRPQCRVKVK LLQRSISLL RFAAGEDGSY EVKSVLGKEV GLLNCFVQSV TAHPTSCIGL  
EEIELLSAGG ASAEH

**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.

## Product Details

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- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	SPIDR
Alternative Name:	SPIDR ( <a href="#">SPIDR Products</a> )
Background:	DNA repair-scaffolding protein (Scaffolding protein involved in DNA repair),FUNCTION: Plays a role in DNA double-strand break (DBS) repair via homologous recombination (HR). Serves as a scaffolding protein that helps to promote the recruitment of DNA-processing enzymes like the helicase BLM and recombinase RAD51 to site of DNA damage, and hence contributes to maintain genomic integrity. {ECO:0000269 PubMed:23509288, ECO:0000269 PubMed:23754376, ECO:0000269 PubMed:27967308, ECO:0000269 PubMed:34697795}.
Molecular Weight:	100.3 kDa
UniProt:	<a href="#">Q14159</a>
Pathways:	<a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## 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 guarantee though.
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## 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>
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)

## Images

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