

Datasheet for ABIN3076909

## SIMC1 Protein (AA 1-872) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SIMC1
Protein Characteristics:	AA 1-872
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIMC1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MAPASASGED LRKLPTMAEV NGEQDFIDLT RETRPRTKDR SGLYVIDLTR AEGENRPIAT</p> <p>LDLTLEPVTP SQKEPTSLQT CASLSGKAVM EGHVDRSSQP TARRIINSDP VDLDLVEENT</p> <p>FVGPPPATSI SGGSVYPTPE NCSSATFTGN LSFLASLQLS SDVSSLSPST NNSRSSSSSS</p> <p>NQKAPLPCPQ QDVSRRPPQAL PCPLRPLPCP PRASPCPPRA SSCPPRALSC PSQTMQCQLP</p> <p>ALTHPPQEVPRQNPNGPP QDSLGLPQDV PGLPQSILHP QDVAYLQDMP RSPGDVPQSP</p> <p>SDVSPSPDAP QSPGGMPHLP GDVLHSPGDM PHSSGDVTHS PRDIPHLPGD RPDFTQNDVQ</p> <p>NRDMPMDISA LSSPSCSPSP QSETPLEKVP WLSVMEPAR KEISLSEPAK PGSAHVQSRT</p> <p>PQGGLYNRPC LHRLKYFLRP PVHHLFFQTL IPDKDTRENK GQKLEPIPHR RLRMVTNTIE</p> <p>ENFPLGTVQF LMDFVSPQHY PPREIVAHII QKILLSGSET VDLVKEAYML LMKIQLHPA</p> <p>NAKTVEWDWK LLTYVMEEEG QTLPGRVLFL RYVVQTLEDD FQQLRRQRQ HLQSSIANMV</p> <p>LSCDKQPHNV RDVIKWLKVA VTEDGLTQPP NGNQTSSTGT ILKASSSHPS SQPNLTKNTN</p>

QLIVCQLQRM LSIAVEVDRT PTCSSNKIAE MMFGFVLDIP ERSQREFFFT TMESHLLRCK  
VLEIIFLHSC ETPTRLPLSL AQALYFLNNS TSLKQCQSDK SQWQWDELV EHLQFLLSSY  
QHVLREHLRS SVIDRKDLII KRIKPKPQQG DDITVVDVEK QIEAFRSRLI QMLGEPLVPQ  
LQDKVHLLKL LLFYAADLNP DAEPFQKGWS GS

**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: SIMC1

Alternative Name: SIMC1 ([SIMC1 Products](#))

Background: SUMO-interacting motif-containing protein 1 (Platform element for inhibition of autolytic degradation),FUNCTION: Plays a role in SMC5-SMC6 complex recruitment for viral restriction. Forms a complex with SLF2 and this complex is required to recruit SMC5-SMC6 complex to PML nuclear bodies and sites of viral replication. {ECO:0000269|PubMed:36373674},. FUNCTION: [Isoform 1]: Inhibits the protease activity of CAPN3. {ECO:0000269|PubMed:23707407},. FUNCTION: [Isoform 5]: Inhibits the protease activity of CAPN3. {ECO:0000269|PubMed:23707407}.

Molecular Weight: 96.8 kDa

UniProt: [Q8NDZ2](#)

## 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.

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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!

## Application Details

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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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months