

Datasheet for ABIN3134548  
**SENP1 Protein (AA 1-640) (Strep Tag)**



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## Overview

Quantity:	250 µg
Target:	SENP1
Protein Characteristics:	AA 1-640
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MDDTADGVKM DAGEVTLVNH GSTFRTHRPP QSGFP EEQLL LSDQQSLPFR QGTLDG SFTC STRSPAYRPD YHSDNPSSDS FLGSGDVRTF GQSANGQWRN STPASGSAPQ KPRNSRSLCL ETRKTSSGLS NTFVGKSNHH CHMSAYEKSF PIKPAPSPSW SGSCRRSLLS PKKTQRRHFS TAEETVQEEE KEIYRQLLQM VTGKQFCVAK PTTTFPLRLS RCLSSNKNSL KDSLLRNGNS CASHVIGSDT SSSGSASILT AQEQLSHSAH SLSSGTPDVA FGSKSDSPHH HLAAPHQPNS LPASNTQSEG SDSVILLKVK ESQTPASSPT FFQAEWIKI LTSVYDSRAR ERLRRIEEQK ALALQLQNQR LQEQEHAVLD SVELHLRVPL EKEIPVTAQ ETRKKSHQLT DSEDEFPEIT EEMEKEIKNV FRNGNQDEV L SEAFRLTITR KDIQTLNHLN WLNDIINFY MNMLMERSKE KGFPSVHAFN TFFFTKLKTA GYQAVKRWTK KVDVFSVDIL LVPIHLGVHW CLAVVDFRRK SITYYDSMGG INNEACRILL QYLKQESVDK KRKEFD TNGW QLFSSKKSQEI PQQMNGSDCG MFACKYADCI TKDRPINFTQ QHMPYFRKRM VWEILHRKLL

**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.

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Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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## Product Details

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Grade: custom-made

## Target Details

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Target: SENP1

Alternative Name: Senp1 ([SENP1 Products](#))

Background: Sentrin-specific protease 1 (EC 3.4.22.-) (SUMO-1 protease 2) (SuPr-2) (Sentrin/SUMO-specific protease SENP1),FUNCTION: Protease that catalyzes two essential functions in the SUMO pathway (PubMed:15923632, PubMed:29499132). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein. Deconjugates SUMO1 from HIPK2 (By similarity). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (By similarity). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO1 from METTL3 (By similarity). Desumoylates CCAR2 which decreases its interaction with SIRT1 (By similarity). Deconjugates SUMO1 from GPS2 (PubMed:29499132). {ECO:0000250|UniProtKB:Q9P0U3, ECO:0000269|PubMed:15923632, ECO:0000269|PubMed:29499132}.

Molecular Weight: 72.5 kDa

UniProt: [P59110](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

## 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.

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.

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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 **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months