

Datasheet for ABIN3136274

## SENP7 Protein (AA 1-1037) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SENP7
Protein Characteristics:	AA 1-1037
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	MDRARPGRRR ASSEIVTEGK RKKSSPADLQ KITKLLTVKS EDVLAQSPLS KLRGSECWWT RSLRNKVICL DHKKPKAARG CPPKGLPKRH LRVMLTNVLW TDLGREFRKT LPRKDANLCA PSKVQSDSLP STSVDSIETC QRLDPLHQSL NLSERTPRVI LTDIRQTELG RKYLKIPPV EASLSDTANL KSEQLSSSSD GSLESCQSVN HHKSFLSESG PKPSRTGDVP AKEAACGGQK QGDDGGVTPE MAAPHPKDFN TGNKGCDYLE EGTSNKNTSY SYSEMDHTPV SRKRKKRGRS NFHDSHNSKT SLDKPTHTK EEENDSSVSR KLEESGEDSH QDPAPPEGLA PESLESEATN LRSFAAGQEP DASAASGRAS SPNKSLESSA SSEVSENSSV AVKGEALTLK EASPPGGSSE ESQLLISAEP IVSSDEEGP VEHKNSVILK LQPPHEIMSE NQGTSDPQLS ELTLGACESV QVTSELPYN PDVENISCIK SNSEMDLKLD FIFTCVYIGK IKGTPKGCVT FTKKYKIPF QVSTNEISLT VDTARLKRFG LWESKDEDHS KRSHAILFLW LSSDYLDIQ TQLENPMLSQ QSKANEFIFL ELNSSISQRE ELKLDIMME ISTKNGNLHL SCPLPWVQAL PLFQDLSPQE

ISFLHYYYAS ASALPTAAGA DMKKKSVSQP SNSDTIKPTY TFLHKQSSGC YLSITSSPE  
EEWQEVNRTG PVQKLIVYPP PPTKGGLGVT NEDLECLEEG EFLNDVIIDF YLKYLLLEKA  
SDELVERSHI FSSFFYKCLT RKENNLTEDN PDLVAQRRH RRVRTWTRHI NIFNKDYIFV  
PVNESSHWYL AVICFPWLEE AVYEDCPQTV SQQFQGQSQ HDHKMTDNDP HTTSTVSTSA  
EDSQSTEVNM SVPKKMCKRP CILILDSLKA ASIQNTVQNL REYLEVEWEV KRKTHREFSK  
TNMVDLCPKV PKQDNSSDCG VYLLQYVESF FQDPIVNFEL PIHLEKWFPR HVIKTKREDI  
RELILKLHLQ QKGGSC

**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.

## Product Details

- 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.

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:	SENP7
Alternative Name:	Senp7 ( <a href="#">SENP7 Products</a> )
Background:	Sentrin-specific protease 7 (EC 3.4.22.-) (SUMO-1-specific protease 2) (Sentrin/SUMO-specific protease SENP7),FUNCTION: Protease that acts as a positive regulator of the cGAS-STING pathway by catalyzing desumoylation of CGAS (PubMed:28095500). Desumoylation of CGAS promotes DNA-binding activity of CGAS, subsequent oligomerization and activation (PubMed:28095500). Deconjugates SUMO2 and SUMO3 from targeted proteins, but not SUMO1 (By similarity). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (By similarity). Has very low efficiency in processing full-length SUMO proteins to their mature forms (By similarity). {ECO:0000250 UniProtKB:Q9BQF6, ECO:0000269 PubMed:28095500}.
Molecular Weight:	116.3 kDa
UniProt:	<a href="#">Q8BUH8</a>

## 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:	<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</p>

Application Details

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Restrictions: For Research Use only

Handling

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