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# SENP3 Protein (AA 1-574) (Strep Tag)



**Image** 



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#### Overview

Quantity:	1 mg
Target:	SENP3
Protein Characteristics:	AA 1-574
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

MKETIQGTGS WGPEPPGPGI PPAYSSPRRE RLRWPPPPKP RLKSGGGFGP DPGSGTTVPA
RRLPVPRPSF DASASEEEEE EEEEEDEDEE EEVAAWRLPP RWSQLGTSQR PRPSRPTHRK
TCSQRRRRAM RAFRMLLYSK STSLTFHWKL WGRHRGRRRG LAHPKNHLSP QQGGATPQVP
SPCCRFDSPR GPPPPRLGLL GALMAEDGVR GSPPVPSGPP MEEDGLRWTP KSPLDPDSGL
LSCTLPNGFG GQSGPEGERS LAPPDASILI SNVCSIGDHV AQELFQGSDL GMAEEAERPG
EKAGQHSPLR EEHVTCVQSI LDEFLQTYGS LIPLSTDEVV EKLEDIFQQE FSTPSRKGLV
LQLIQSYQRM PGNAMVRGFR VAYKRHVLTM DDLGTLYGQN WLNDQVMNMY GDLVMDTVPE
KVHFFNSFFY DKLRTKGYDG VKRWTKNVDI FNKELLLIPI HLEVHWSLIS VDVRRRTITY
FDSQRTLNRR CPKHIAKYLQ AEAVKKDRLD FHQGWKGYFK MNVARQNNDS DCGAFVLQYC
KHLALSQPFS FTQQDMPKLR RQIYKELCHC KLTV

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.

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

### 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.

	<ol> <li>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	
Target:	SENP3
Alternative Name:	SENP3 (SENP3 Products)
Background:	Sentrin-specific protease 3 (EC 3.4.22) (SUMO-1-specific protease 3) (Sentrin/SUMO-specific
	protease SENP3),FUNCTION: Protease that releases SUMO2 and SUMO3 monomers from
	sumoylated substrates, but has only weak activity against SUMO1 conjugates
	(PubMed:16608850, PubMed:32832608). Deconjugates SUMO2 from MEF2D, which increases
	its transcriptional activation capability (PubMed:15743823). Deconjugates SUMO2 and SUMO3
	from CDCA8 (PubMed:18946085). Redox sensor that, when redistributed into nucleoplasm, car
	act as an effector to enhance HIF1A transcriptional activity by desumoylating EP300
	(PubMed:19680224). Required for rRNA processing through deconjugation of SUMO2 and
	SUMO3 from nucleophosmin, NPM1 (PubMed:19015314). Plays a role in the regulation of
	sumoylation status of ZNF148 (PubMed:18259216). Functions as a component of the Five
	Friends of Methylated CHTOP (5FMC) complex, the 5FMC complex is recruited to ZNF148 by
	methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of
	ZNF148 target genes (PubMed:22872859). Deconjugates SUMO2 from KAT5
	(PubMed:32832608). {ECO:0000269 PubMed:15743823, ECO:0000269 PubMed:16608850,
	ECO:0000269 PubMed:18259216, ECO:0000269 PubMed:18946085,
	ECO:0000269 PubMed:19015314, ECO:0000269 PubMed:19680224,
	ECO:0000269 PubMed:22872859, ECO:0000269 PubMed:32832608}.
Molecular Weight:	65.0 kDa
UniProt:	Q9H4L4
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

# **Application Details**

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	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
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	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!
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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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