antibodies .- online.com





SENP1 Protein (AA 1-644) (Strep Tag)



Image



Go to Product pag

Overview

Quantity:	1 mg
Target:	SENP1
Protein Characteristics:	AA 1-644
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MDDIADRMRM DAGEVTLVNH NSVFKTHLLP QTGFPEDQLS LSDQQILSSR QGHLDRSFTC STRSAAYNPS YYSDNPSSDS FLGSGDLRTF GQSANGQWRN STPSSSSSLQ KSRNSRSLYL ETRKTSSGLS NSFAGKSNHH CHVSAYEKSF PIKPVPSPSW SGSCRRSLLS PKKTQRRHVS TAEETVQEEE REIYRQLLQM VTGKQFTIAK PTTHFPLHLS RCLSSSKNTL KDSLFKNGNS CASQIIGSDT SSSGSASILT NQEQLSHSVY SLSSYTPDVA FGSKDSGTLH HPHHHHHSVPH QPDNLAASNT QSEGSDSVIL LKVKDSQTPT PSSTFFQAEL WIKELTSVYD SRARERLRQI EEQKALALQL QNQRLQEREH SVHDSVELHL RVPLEKEIPV TVVQETQKKG HKLTDSEDEF PEITEEMEKE IKNVFRNGNQ DEVLSEAFRL TITRKDIQTL NHLNWLNDEI INFYMNMLME RSKEKGLPSV HAFNTFFFTK LKTAGYQAVK RWTKKVDVFS VDILLVPIHL GVHWCLAVVD FRKKNITYYD SMGGINNEAC RILLQYLKQE SIDKKRKEFD TNGWQLFSKK SQEIPQQMNG SDCGMFACKY ADCITKDRPI NFTQQHMPYF RKRMVWEILH RKLL

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

Product Details	
	capture material. Eluate fractions are analyzed by SDS-PAGE. 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.
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:	SENP1
Alternative Name:	SENP1 (SENP1 Products)
Background:	Sentrin-specific protease 1 (EC 3.4.22) (Sentrin/SUMO-specific protease SENP1),FUNCTION:
	Protease that catalyzes two essential functions in the SUMO pathway (PubMed:10652325,
	PubMed:15199155, PubMed:16253240, PubMed:16553580, PubMed:21829689,
	PubMed:21965678, PubMed:23160374, PubMed:24943844, PubMed:25406032,
	PubMed:29506078). 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 SUM01 from HIPK2 (PubMed:16253240). Deconjugates SUM01 from HDAC1
	and BHLHE40/DEC1, which decreases its transcriptional repression activity
	(PubMed:21829689). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional
	activation activity (PubMed:23160374). Deconjugates SUMO2 from MTA1 (PubMed:21965678).
	Deconjugates SUMO1 from METTL3 (PubMed:29506078). Desumoylates CCAR2 which
	decreases its interaction with SIRT1 (PubMed:25406032). Deconjugates SUM01 from GPS2
	(PubMed:24943844). {ECO:0000269 PubMed:10652325, ECO:0000269 PubMed:15199155,
	ECO:0000269 PubMed:16253240, ECO:0000269 PubMed:16553580,
	ECO:0000269 PubMed:21829689, ECO:0000269 PubMed:21965678,
	ECO:0000269 PubMed:23160374, ECO:0000269 PubMed:24943844,
	ECO:0000269 PubMed:25406032, ECO:0000269 PubMed:29506078}.

Molecular Weight:

UniProt:

73.5 kDa

Q9P0U3

Positive Regulation of Endopeptidase Activity

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:

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!

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