Datasheet for ABIN3095426

SENP6 Protein (AA 1-1112) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SENP6
Protein Characteristics:	AA 1-1112
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP6 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAGKSGGSA GEITFLEALA RSESKRDGGF KNNWSFDHEE ESEGDTDKDG TNLLSVDEDE DSETSKGKKL NRRSEIVANS SGEFILKTYV RRNKSESFKT LKGNPIGLNM LSNNKKLSEN TQNTSLCSGT VVHGRRFHHA HAQIPVVKTA AQSSLDRKER KEYPPHVQKV EINPVRLSRL QGVERIMKKT EESESQVEPE IKRKVQQKRH CSTYQPTPPL SPASKKCLTH LEDLQRNCRQ AITLNESTGP LLRTSIHQNS GGQKSQNTGL TTKKFYGNNV EKVPIDIIVN CDDSKHTYLQ TNGKVILPGA KIPKITNLKE RKTSLSDLND PIILSSDDDD DNDRTNRRES ISPQPADSAC SSPAPSTGKV EAALNENTCR AERELRSIPE DSELNTVTLP RKARMKDQFG NSIINTPLKR RKVFSQEPPD ALALSCQSSF DSVILNCRSI RVGTLFRLLI EPVIFCLDFI KIQLDEPDHD PVEIILNTSD LTKCEWCNVR KLPVVFLQAI PAVYQKLSIQ LQMNKEDKVW NDCKGVNKLT NLEEQYIILI FQNGLDPPAN MVFESIINEI GIKNNISNFF AKIPFEEANG RLVACTRTYE ESIKGSCGQK ENKIKTVSFE SKIQLRSKQE FQFFDEEEET GENHTIFIGP VEKLIVYPPP PAKGGISVTN

EDLHCLNEGE FLNDVIIDFY LKYLVLEKLK KEDADRIHIF SSFFYKRLNQ RERRNHETTN LSIQQKRHGR VKTWTRHVDI FEKDFIFVPL NEAAHWFLAV VCFPGLEKPK YEPNPHYHEN AVIQKCSTVE DSCISSSASE MESCSQNSSA KPVIKKMLNK KHCIAVIDSN PGQEESDPRY KRNICSVKYS VKKINHTASE NEEFNKGEST SQKVADRTKS ENGLQNESLS STHHTDGLSK IRLNYSDESP EAGKMLEDEL VDFSEDQDNQ DDSSDDGFLA DDNCSSEIGQ WHLKPTICKQ PCILLMDSLR GPSRSNVVKI LREYLEVEWE VKKGSKRSFS KDVMKGSNPK VPQQNNFSDC GVYVLQYVES FFENPILSFE LPMNLANWFP PPRMRTKREE IRNIILKLQE DQSKEKRKHK DTYSTEAPLG EGTEQYVNSI SD

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 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:

Product Details

- 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.

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:	SENP6
Alternative Name:	SENP6 (SENP6 Products)
Background:	Sentrin-specific protease 6 (EC 3.4.22.-) (SUMO-1-specific protease 1) (Sentrin/SUMO-specific protease SENP6),FUNCTION: Protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. Processes preferentially poly-SUMO2 and poly-SUMO3 chains, but does not efficiently process SUMO1, SUMO2 and SUMO3 precursors. Deconjugates SUMO1 from RXRA, leading to transcriptional activation. Involved in chromosome alignment and spindle assembly, by regulating the kinetochore CENPH-CENPI-CENPK complex. Desumoylates PML and CENPI, protecting them from degradation by the ubiquitin ligase RNF4, which targets polysumoylated proteins for proteasomal degradation. Desumoylates also RPA1, thus preventing recruitment of RAD51 to the DNA damage foci to initiate DNA repair through homologous recombination. {ECO:0000269|PubMed:16912044, ECO:0000269|PubMed:17000875, ECO:0000269|PubMed:18799455, ECO:0000269|PubMed:20212317, ECO:0000269|PubMed:20705237, ECO:0000269|PubMed:21148299}.
Molecular Weight:	126.1 kDa
UniProt:	Q9GZR1

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

Application Details

	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. 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