Datasheet for ABIN3095426

SENP6 Protein (AA 1-1112) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	SENP6
Protein Characteristics:	AA 1-1112
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP6 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

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. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human SENP6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step

Product Details

	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SENP6
Alternative Name:	SENP6 (SENP6 Products)
Background:	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:	127.1 kDa Including tag.
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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

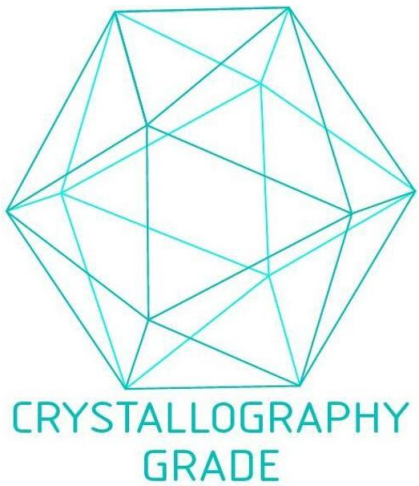

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process