Datasheet for ABIN3095425

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

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Overview

Quantity:	250 µg
Target:	SENP3
Protein Characteristics:	AA 1-574
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
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 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. • 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:	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, can 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 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

Application Details

	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