

Datasheet for ABIN3135027 SUV420H1 Protein (AA 1-883) (Strep Tag)



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Quantity:	250 μg	
Target:	SUV420H1	
Protein Characteristics:	AA 1-883	
Origin:	Mouse	
Source:	Cell-free protein synthesis (CFPS)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This SUV420H1 protein is labelled with Strep Tag.	
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)	

Product Details			
Brand:	AliCE®		
Sequence:	MKWLGDSKNM VVNGRRNGGK LSNDHQQNQS KLQQHSGKDT LKTGRNAVER RSSRCHGNSG		
	FEGQSRYVPS SGMSAKELCE NDDLATSLVL DPYLGFQTHK MNTSAFPSRS SRHISKADSF		
	SHNNPVRFRP IKGRQEELKE VIERFKKDEH LEKAFKCLTS GEWARHYFLN KNKMQEKLFK		
	EHVFIYLRMF ATDSGFEILP CNRYSSEQNG AKIVATKEWK RNDKIELLVG CIAELSEIEE		
	NMLLRHGEND FSVMYSTRKN CAQLWLGPAA FINHDCRPNC KFVSTGRDTA CVKALRDIEP		
	GEEISCYYGD GFFGENNEFC ECYTCERRGT GAFKSRVGLP APAPVINSKY GLRETDKRLN		
	RLKKLGDSSK NSDSQSVSSN TDADTTQEKD NATSNRKSSV GVKKSSKSRA LTRPSMPRVP		
	AASNSTSPKL VHTNNPRVPK KLRKPAKPLL SKIRLRNHCK RLDQKSASRK LEMGSLVLKE		
	PKVVLYKNLP IKKEREPEGP AHAAVGSGCL TRHAAREHRQ NHGRGAHSQG DSLPCTYTTR		
	RSLRTRTGLK ETTDIKLEPS PLDGYKNGIL EPCPDSGQQP TPEVLEELAP ETAHREEASQ		
	ECPKNDSCLS RKKFRQVKPV KHLAKTEDCS PEHSFPGKDG LPDLPGSHPD QGEPSGTVRV		

PVSHTDSAPS PVGCSVVAPD SFTKDSFRTA QSKKKRRVTR YDAQLILENS SGIPKLTLRR
RHDSSSKTND HESDGVNSSK ISIKLSKDHD SDSNLYVAKL SNGVSAGPGS SSTKLKIQLK
RDEESRGPCA EGLHENGVCC SDPLSLLESQ MEVDDYSQYE EDSTDESSSS EGEEEEEDCE
DDFDDDFIPL PPAKRLRLIV GKDSIDIDIS SRRREDQSLR LNA

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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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

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Grade:	custom-made		
Target Details			
Target:	SUV420H1		
Alternative Name:	Kmt5b (SUV420H1 Products)		
Background:	Histone-lysine N-methyltransferase KMT5B (Lysine-specific methyltransferase 5B) (Suppresso		
	of variegation 4-20 homolog 1) (Su(var)4-20 homolog 1) (Suv4-20h1) ([histone H4]-N-methyl-L-		
	lysine20 N-methyltransferase KMT5B) (EC 2.1.1.362) ([histone H4]-lysine20 N-		
	methyltransferase KMT5B) (EC 2.1.1.361),FUNCTION: Histone methyltransferase that		
	specifically methylates monomethylated 'Lys-20' (H4K20me1) and dimethylated 'Lys-20'		
	(H4K20me2) of histone H4 to produce respectively dimethylated 'Lys-20' (H4K20me2) and		
	trimethylated 'Lys-20' (H4K20me3) and thus regulates transcription and maintenance of		
	genome integrity (PubMed:28114273, PubMed:24049080, PubMed:15145825). In vitro also		
	methylates unmodified 'Lys-20' (H4K20me0) of histone H4 and nucleosomes (By similarity). He		
	'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression		
	(PubMed:15145825). Mainly functions in pericentric heterochromatin regions, thereby playing		
	central role in the establishment of constitutive heterochromatin in these regions		
	(PubMed:15145825). KMT5B is targeted to histone H3 via its interaction with RB1 family		
	proteins (RB1, RBL1 and RBL2) (PubMed:16612004, PubMed:15750587). Plays a role in		
	myogenesis by regulating the expression of target genes, such as EID3 (PubMed:23720823).		
	Facilitates TP53BP1 foci formation upon DNA damage and proficient non-homologous end-		
	joining (NHEJ)-directed DNA repair by catalyzing the di- and trimethylation of 'Lys-20' of histon		
	H4 (By similarity). May play a role in class switch reconbination by catalyzing the di- and		
	trimethylation of 'Lys-20' of histone H4 (PubMed:28114273). {ECO:0000250 UniProtKB:Q4FZB7		
	ECO:0000269 PubMed:15145825, ECO:0000269 PubMed:15750587,		
	ECO:0000269 PubMed:16612004, ECO:0000269 PubMed:23720823,		
	ECO:0000269 PubMed:24049080, ECO:0000269 PubMed:28114273}.		
Molecular Weight:	98.6 kDa		

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UniProt:	03U8K7		

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. 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