

Datasheet for ABIN3096216 USP21 Protein (AA 1-565) (Strep Tag)



Overview

Quantity:	250 µg
Target:	USP21
Protein Characteristics:	AA 1-565
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP21 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPQASEHRLG RTREPPVNIQ PRVGSKLPFA PRARSKERRN PASGPNPMLR PLPPRPGLPD
	ERLKKLELGR GRTSGPRPRG PLRADHGVPL PGSPPPTVAL PLPSRTNLAR SKSVSSGDLR
	PMGIALGGHR GTGELGAALS RLALRPEPPT LRRSTSLRRL GGFPGPPTLF SIRTEPPASH
	GSFHMISARS SEPFYSDDKM AHHTLLLGSG HVGLRNLGNT CFLNAVLQCL SSTRPLRDFC
	LRRDFRQEVP GGGRAQELTE AFADVIGALW HPDSCEAVNP TRFRAVFQKY VPSFSGYSQQ
	DAQEFLKLLM ERLHLEINRR GRRAPPILAN GPVPSPPRRG GALLEEPELS DDDRANLMWK
	RYLEREDSKI VDLFVGQLKS CLKCQACGYR STTFEVFCDL SLPIPKKGFA GGKVSLRDCF
	NLFTKEEELE SENAPVCDRC RQKTRSTKKL TVQRFPRILV LHLNRFSASR GSIKKSSVGV
	DFPLQRLSLG DFASDKAGSP VYQLYALCNH SGSVHYGHYT ALCRCQTGWH VYNDSRVSPV
	SENQVASSEG YVLFYQLMQE PPRCL
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In case
	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 fo 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:

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custom-made

Target Details	
Target:	USP21
Alternative Name:	USP21 (USP21 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 21 (EC 3.4.19.12) (Deubiquitinating enzyme 21) (Ubiquitin
	thioesterase 21) (Ubiquitin-specific-processing protease 21),FUNCTION: Deubiquitinates
	histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a
	coactivator (By similarity). Deubiquitination of histone H2A releaves the repression of di- and
	trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation (By
	similarity). Regulates gene expression via histone H2A deubiquitination (By similarity).
	Deubiquitinates BAZ2A/TIP5 leading to its stabilization (PubMed:26100909). Also capable of
	removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates
	(PubMed:10799498). Also acts as a negative regulator of the ribosome quality control (RQC) by
	mediating deubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS20/uS10, thereby
	antagonizing ZNF598-mediated 40S ubiquitination (PubMed:32011234).
	{EC0:0000250 UniProtKB:Q9QZL6, EC0:0000269 PubMed:10799498,
	EC0:0000269 PubMed:26100909, EC0:0000269 PubMed:32011234}.
Molecular Weight:	62.7 kDa
UniProt:	Q9UK80
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

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

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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