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Datasheet for ABIN3096218

USP43 Protein (AA 1-1123) (Strep Tag)

Overview

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|-------------------------------|--|
| Quantity: | 250 µg |
| Target: | USP43 |
| Protein Characteristics: | AA 1-1123 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This USP43 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MDLGPDAAG GGPLAPRRR RRSLRRLFSR FLLALGSRSR PGDSPRRPQP GHCDGDGEGG
FACAPGPVPA APGSPGEERP PGPQQLQLP AGDGARPPGA QGLKNHGNTC FMNAVQCLS
NTDLLAEFLA LGRYRAAPGR AEVTEQLAAL VRALWTREYT PQLSAEFKNA VSKYGSQFQG
NSQHDALEFL LWLLDRVHED LEGSSRGPVS EKLPPEATKT SENCLSPSAQ LPLGQSFVQS
HFQAQYRSSL TCPHCLKQSN TFDPFCLVSL PIPLRQTRFL SVTLVFPSKS QRFLRVGLAV
PILSTVAALR KMVAEEGGVP ADEVILVELY PSGFQRSFFD EEDLNTIAEG DNVYAFQVPP
SPSQGTLSAH PLGLSASPRL AAREGQRFSL SLHSESKVLI LFCNLVGSQ QASRFGPPFL
IREDRAVSWA QLQQSILSKV RHLMKSEAPV QNLGSLFSIR VVGLSVACSY LSPKDSRPLC
HWAVDRVLHL RRPGGPPHVK LAVEWDSVK ERLFGSLQEE RAQDADSVWQ QQQAHQHSC
TLDECFQFYT KEEQLAQDDA WKCPHCQVLQ QGMVKLSLWT LPDILIIHLK RFCQVGERRN
KLSTLVKFPL SGLNMAPHVA QRSTSPEAGL GPWPSWKQPD CLPTSYPDF LYDLYAVCNH
HGNLQGGHYT AYCRNSLDGQ WYSYDDSTVE PLREDEVNTR GAYILFYQKR NSIPPWSASS

SMRGSTSSSL SDHWLLRLGS HAGSTRGSL L SWSSAPCPSL PQVPDPIFT NSLCNQEKGG
LEPRRLVRGV KGRSISMKAP TTSRAKQGP KTMPLRWSFG SKEKPPGASV ELVEYLESRR
RPRSTSQSIV SLLTGTAGED EKSASPRSNV ALPANSEDGG RAIERGPAGV PCPSAQPNHC
LAPGNSDGPN TARKLKENAG QDIKLPRKFD LPLTMPSVE HEKPARPEGQ KAMNWKESFQ
MGSKSSPPSP YMGFSGNSKD SRRGTSELDR PLQGTLLLR SVFRKKENRR NERAEVSPQV
PPVSLVSGGL SPAMDGQAPG SPPALRIPEG LARGLGSRL RDVWSAPSSL RLPRKASRAP
RGSALGMSQR TVPGEQASYG TFQRVKYHTL SLGRKKTLP E SSF

Sequence without tag. The proposed Strep-Tag is based on experience with the expression system. Our team may suggest an additional tag depending on the complexity of the protein. If 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
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a predefined custom 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 predefined custom 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.

Product Details

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| Purification: | One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®). |
| Purity: | approximately 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). |
| Grade: | custom-made |

Target Details

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|-------------------|---|
| Target: | USP43 |
| Alternative Name: | USP43 (USP43 Products) |
| Background: | Ubiquitin carboxyl-terminal hydrolase 43 (EC 3.4.19.12) (Deubiquitinating enzyme 43) (Ubiquitin thioesterase 43) (Ubiquitin-specific-processing protease 43),FUNCTION: May recognize and hydrolyze the peptide bond at the C-terminal Gly of ubiquitin. Involved in the processing of poly-ubiquitin precursors as well as that of ubiquitinated proteins (By similarity). {ECO:0000250}. |
| Molecular Weight: | 122.8 kDa |
| UniProt: | Q70EL4 |

Application Details

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| 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: | <p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p> |
| 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