Datasheet for ABIN3096196

USP35 Protein (AA 1-1018) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	USP35
Protein Characteristics:	AA 1-1018
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP35 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDKILEAVVT SSYPVSVKQG LVRRVLEAAR QPLEREQCLA LLALGARLYV GGAEELPRRV GCQLLHVAGR HHPDVFAEFF SARRVLRLLQ GGAGPPGPRA LACVQLGLQL LPEGPAADEV FALLRREVLR TVCERPGPAA CAQVARLLAR HPRCVPDGPH RLLFCQQLVR CLGRFRCPAE GEEGAVEFLE QAQQVSGLLA QLWRAQPAAI LPCLKELFAV ISCAEEEPPS SALASVVQHL PLELMDGVVR NLSNDDSVTD SQMLTAISRM IDWVSWPLGK NIDKWIIALL KGLAAVKKFS ILIEVSLTKI EKVFSKLLYP IVRGAALSVL KYMLLTFQHS HEAFHLLLPH IPPMVASLVK EDSNSGTSCL EQLAELVHCM VFRFPGFPDL YEPVMEAIKD LHVPNEDRIK QLLGQDAWTS QKSELAGFYP RLMAKSDTGK IGLINLGNTC YVNSILQALF MASDFRHCVL RLTENNSQPL MTKLQWLFGF LEHSQRPAIS PENFLSASWT PWFSPGTQQD CSEYLKYLLD RLHEEEKTGT RICQKLKQSS SPSPPEEPPA PSSTSVEKMF GGKIVTRICC LCCLNVSSRE EAFTDLSLAF PPPERCRRRR LGSVMRPTED ITARELPPPT SAQGPGRVGP RRQRKHCITE DTPPTSLYIE GLDSKEAGGQ SSQEERIERE EEGKEERTEK EEVGEEEEST RGEGEREKEE EVEEEEEKVE

KETEKEAEQE KEEDSLGAGT HPDAAIPSGE RTCGSEGSRS VLDLVNYFLS PEKLTAENRY YCESCASLQD AEKVVELSQG PCYLILTLLR FSFDLRTMRR RKILDDVSIP LLLRLPLAGG RGQAYDLCSV VVHSGVSSES GHYYCYAREG AARPAASLGT ADRPEPENQW YLFNDTRVSF SSFESVSNVT SFFPKDTAYV LFYRQRPREG PEAELGSSRV RTEPTLHKDL MEAISKDNIL YLQEQEKEAR SRAAYISALP TSPHWGRGFD EDKDEDEGSP GGCNPAGGNG GDFHRLVF

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 in several dilutions and is measured against its

Product Details

	specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	USP35
Alternative Name:	USP35 (USP35 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 35 (EC 3.4.19.12) (Deubiquitinating enzyme 35) (Ubiquitin thioesterase 35) (Ubiquitin-specific-processing protease 35),FUNCTION: Deubiquitinase that plays a role in different processes including cell cycle regulation, mitophagy or endoplasmic reticulum stress (PubMed:26348204, PubMed:29449677, PubMed:37004621). Inhibits TNFalpha-induced NF-kappa-B activation through stabilizing TNIP2 protein via deubiquitination (PubMed:26348204). Plays an essential role during mitosis by deubiquitinating and thereby regulating the levels of Aurora B/AURKB protein (PubMed:29449677). In addition, regulates the protein levels of other key component of the chromosomal passenger complex (CPC) such as survivin/BIRC5 or Borealin/CDCA8 by enhancing their stability (PubMed:34438346). Regulates the degradation of mitochondria through the process of autophagy termed mitophagy (PubMed:25915564). {ECO:0000269|PubMed:25915564, ECO:0000269|PubMed:26348204, ECO:0000269|PubMed:29449677, ECO:0000269|PubMed:34438346, ECO:0000269|PubMed:37004621}.
Molecular Weight:	113.4 kDa
UniProt:	Q9P2H5

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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