

Datasheet for ABIN3096196

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



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	USP35
Protein Characteristics:	AA 1-1018
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP35 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MDKILEAVVT SSYPVSVKQG LVRRVLEAAR QPLEREQCLA LLALGARLYV GGAEELPRRV</p> <p>GCQLLHVAGR HHPDVFAEFF SARRVLRLQ GGAGPPGPRA LACVQLGLQL LPEGPAADEV</p> <p>FALLRREVL TVCERPGPAA CAQVARLLAR HPRCVPDGP RLLFCQQLVR CLGRFRCPAE</p> <p>GEEGAVEFLE QAQQVSGLLA QLWRAQPAI LPCLKELFAV ISCAEEPPS SALASVVQHL</p> <p>PLELMDGVVR NLSNDDSVTD SQMLTAISRM IDWVSWPLGK NIDKWIALL KGLAAVKKFS</p> <p>ILIEVSLTKI EKVFSLLYP IVRGAALSVL KYMLLTFQHS HEAFHLLPH IPPMVASLVK</p> <p>EDSNSGTSCLEQLAELVHCM VFRFPGFDDL YEPVMEAIKD LHPNEDRIK QLLGQDAWTS</p> <p>QKSELAGFYP RLMAKSDTGK IGLINLGNTC YVNSILQALF MASDFRHCVL RLTENNSQPL</p> <p>MTKLQWLFGF LEHSQRPAIS PENFLSASWT PWFSPGTQQD CSEYLKYL LDRLHEEEKTGT</p> <p>RICQKLKQSS SPSPPEEPPA PSSTSVEKMF GGKIVTRICC LCCLNVSSRE EAFTDLSLAF</p> <p>PPPERCRRRR LGSVMRPTED ITARELPPT SAQGPGRVGP RRQRKHCITE DTPPTSLEYE</p>

GLDSKEAGGQ SSQEERIERE EEGKEERTEK EEVGEEEST RGEGEREKEE EEEEEEEKVE
KETEKEAEQE KEEDSLGAGT HPDAAIPSGE RTCGSEGSRS VLDLVNYFLS PEKLTAEENRY
YCESCASLQD AEKVVELSQG PCYLILTLLR FSFDLRTMRR RKILDDVSIP LLLRLPLAGG
RGQAYDLCSV VVHSGVSSSES GHYYCYAREG AARPAASLGT ADRPEPENQW YLFNDTRVSF
SSFESVSNVT SFFPKDTAYV LFYRQRPREG PEAELGSSRV RTEPTLHKDL MEAISKNIL
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 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.

Product Details

- 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: 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

Application Details

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