

Datasheet for ABIN3096217
USP26 Protein (AA 1-913) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	USP26
Protein Characteristics:	AA 1-913
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP26 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAALFLRGFV QIGNCKTGIS KSKEAFIEAV ERKKKDRLVL YFKSGKYSTF RLSDNIQNVV
LKS YRGNQNH LHLTLQNNNG LFIEGLSSTD AEQLKIFLDR VHQNEVQPPV RPGKGGSVFS
STTQKEINKT SFHKVDEKSS SKSFEIAKGS GTGVLQRMPL LTSKLTLCG ELSENQHKKR
KRMLSSSEM NEEFLKENNS VEYKSKADC SRCVSYNREK QLKLKELEEN KKLECESSCI
MNATGNPYLD DIGLLQALTE KMVLVFLQ GYSDGYTKWD KKLFFELFP EKICHGLPNL
GNTCYMNAVL QSLLSIPFA DDLLNQSPFW GKIPLNATM CLARLLFFKD TYNIEIKEML
LLNLKKAISA AAEIFHGNAQ NDAHEFLAHC LDQLKDNMEK LNTIWPKPSE FGEDNFPKQV
FADDPDTS GF SCPVITNFEL ELLHSIACKA CGQVILKTEL NNYLSINLPQ RIKAHPSSIQ
STFDLFFGAE ELEYKCAKCE HKTSVGVSF SRLPRILIVH LKRYSLNEFC ALKKNQDEVI
ISKYLKVVSSH CNEGTRPPLP LSEGEITDF QLLKVIRKMT SGNISVSWPA TKESKDILAP
HIGSDKESEQ KKGQTVFKGA SRRQQQKYLK GNSKPNELES VYSGDRAFIE KEPLAHLMTY
LEDTSLCQFH KAGGKPASSP GTPLSKVDFQ TVPENPKRKK YVKTSKFVAF DRIINPTKDL

YEDKNIRIPE RFQKVSEQTQ QCDGMRICEQ APQQALPQSF PKPGTQGHTK NLLRPTKLNL
QKSNRNSLLA LGSNKNPRNK DILDKIKSKA KETKRNDKDG DHTYRLISVV SHLGKTLKSG
HYICDAYDFE KQIWFTYDDM RVLGIQEAQM QEDRRCTGYI FFYMHNEIFE EMLKREENAQ
LNSKEVEETL QKE

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 specific reference buffer.

Product Details

- 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®): <ol style="list-style-type: none">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:	USP26
Alternative Name:	USP26 (USP26 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 26 (EC 3.4.19.12) (Deubiquitinating enzyme 26) (Ubiquitin thioesterase 26) (Ubiquitin-specific-processing protease 26),FUNCTION: Deubiquitinase regulating several biological processes through the deubiquitination of components of these processes (PubMed:28839133, PubMed:20501646). Involved in somatic cell reprogramming through the 'Lys-48'-linked deubiquitination and stabilization of CBX4 and CBX6, two components of the polycomb-repressive complex 1 (PRC1) (PubMed:28839133). Also deubiquitinates and probably stabilizes the androgen receptor (AR), regulating the androgen receptor signaling pathway (PubMed:20501646). May play a role in spermatogenesis (PubMed:34202084). {ECO:0000269 PubMed:20501646, ECO:0000269 PubMed:28839133, ECO:0000269 PubMed:34202084}.
Molecular Weight:	104.0 kDa
UniProt:	Q9BXU7

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
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Application Details

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