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Datasheet for ABIN3096153

## USP19 Protein (AA 1-1291) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	USP19
Protein Characteristics:	AA 1-1291
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP19 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MSGGASATGP RRGPPGLEDT TSKKKQKDRA NQESKDGDPK KETGSRVVAQ AGLLEPLASGD  
 PSASASHAAG ITGSRHRTL FFPSSSGSAS TPQEEQKEG ACEDPHDLA TPTPELLLDW  
 RQSAEEVIVK LRVGVGPLQL EDVDAAFDT DCVVRFAGGQ QWGGVFYAEI KSSCAKVQTR  
 KGSLHLTLK KVPMLTWPS LLVEADEQLC IPPLNSQTCL LGSEENLAPL AGEKAVPPGN  
 DPVSPAMVRS RNPBKDDCAK EEMAVAADAA TLVDEPESMV NLAQVKNDSY EKGPDSSVVH  
 VYVKEICRDT SRVLFREQDF TLIFQTRDGN FLRLHPGCGP HTTFRWQVKL RNLIEPEQCT  
 FCFTASRIDL CLRKRQSQRW GGLEAPAARV GGAKVAVPTG PTPLDSTPPG GAPHLTGQE  
 EARAVEKDKS KARSEDGLD SVATRTPMEH VTPKPETHLA SPKPTCMVPP MPHSPVSGDS  
 VEEEEEEKK VCLPGFTGLV NLGNTCFMNS VIQSLNTRT LRDFHDSRF EAEINYNPL  
 GTGGRLAIGF AVLLRALWKG THHAFQPSKL KAIVASKASQ FTGYAQHDAQ EFMAFLLDGL  
 HEDLNRIQNK PYTETVSDG RPDEVVAEEA WQRHKMRNDS FIVDLFQGQY KSKLVCPVCA  
 KVSITFDPFL YLPVPLPQKQ KVLVPVYFAR EPHSKPIKFL VSVSKENSTA SEVLDSLSQS

VHVKPENLRL AEVIKNRFHR VFLPSHSLDT VSPSDTLLCF ELLSSELAKE RWWLEVQQR  
PQVPSVPISK CAACQRKQQS EDEKLRCTR CYRVGYCNQL CQKTHWPDHK GLCRPENIGY  
PFLVSVPASR LTYARLAQLL EGYARYSVSV FQPPFQGRM ALESQSPGCT TLLSTGSLEA  
GDSERDPIQP PELQLVTPMA EGD TGLPRVW AAPDRGPVPS TSGISSEMLA SGPIEVGSLP  
AGERVSRPEA AVPGYQHPSE AMNAHTPQFF IYKIDSSNRE QRLEDKGDTP LELGDDCSLA  
LVWRNNERLQ EFVLVASKEL ECAEDPGSAG EAARAGHFTL DQCLNLFTRP EVLAPEEAWY  
CPQCKQHREA SKQLLLWRLP NVLIVQLKRF SFRSFIWRDK INDLVEFPVR NLDLSKFCIG  
QKEEQLPSYD LYAVINHYGG MIGGHYTACA RLPNDRSSQR SDVGWRLFDD STVTTVDESQ  
VVTRYAYVLF YRRRNSPVER PPRAGHSEHH PDLGPAAEAA ASQASRIWQE LEAEEEPVPE  
GSGPLGPWGP QDWVGPLPRG PTTTPDEGCLR Y

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human USP19 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

## Product Details

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different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

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Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target: USP19

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Alternative Name: USP19 ([USP19 Products](#))

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Background: Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates. Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. Plays an important role in 17 beta-estradiol (E2)-inhibited myogenesis. Decreases the levels of ubiquitinated proteins during skeletal muscle formation and acts to repress myogenesis. Exhibits a preference towards 'Lys-63'-linked Ubiquitin chains. {ECO:0000269|PubMed:19465887, ECO:0000269|PubMed:21849505, ECO:0000269|PubMed:22128162, ECO:0000269|PubMed:22689415}.

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Molecular Weight: 143.6 kDa Including tag.

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UniProt: [094966](#)

## 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.

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## Application Details

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**Comment:** In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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## Images

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