

Datasheet for ABIN3096198
USP4 Protein (AA 1-963) (His tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | USP4 |
| Protein Characteristics: | AA 1-963 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This USP4 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

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|-----------|---|
| Sequence: | <p>MAEGGGCRER PDAETQKSEL GPLMRTTLQR GAQWYLIDSR WFKQWKKYVG FDSWDMYNVG EHNLFPGPID NSGLFSDPES QTLKEHLIDE LDYVLPTEA WNKLLNWYGC VEGQQPIVRK VVEHGLFVKH CKVEVYLLEL KLCENS DPTN VLSCHF SKAD TIATIEKEMR KLFNIPAERE TRLWNKYMSN TYEQLSKLDN TVQDAGLYQG QLVIEPQNE DGTWPRQTLQ SKSSTAPSRN FTTSPKSSAS PYSSVSASLI ANG DSTSTCG MHSSGVS RRG SGFSASYN CQ EPPSSHIQPG LCGLGNLGNT CFMNSALQCL SNTAPLTDYF LKDEYEAEIN RDNPLGMKGE IAEAYAEIK QMWSGRDAHV APRMFKTQVG RFAPQFSGYQ QQDSQELLAF LLDGLHEDLN RVKKKPYLEL KDANGRPDAV VAKEAWENHR LRND SVIVDT FHGLFKSTLV CPECAKVSVT FDPFCYLTL P LPLKKDRVME VFLVPADPHC RPTQYRVTV P LMGAVSDLCE ALSRLSGIAA ENMVVADVYN HRFHKIFQMD EGLNHIMPRD DIFVYEV CST SVDGSECVTL PVYFRERKSR PSSTSSASAL YGQPLLLSVP KHKL TLES LY QAVCDRISRY VKQPLPDEFG SSPLEPGACN GSRNSCEGED EEEMEHQEEG KEQLSETEGS GEDEPGNDPS ETTQKKIKGQ PCPKRLFTFS LVNSYGTADI</p> |
|-----------|---|

NSLAADGKLL KLNSRSTLAM DWDSETRRLY YDEQESEAYE KHVSMMLQPQK KKKTTVALRD
CIELFTTMMET LGEHDPWYCP NCKKHQQATK KFDLWSLPKI LVVHLKRFSY NRYWRDKLDT
VVEFPIRGLN MSEFVCNLSA RPYVYDLIAV SNHYGAMGVG HYTAYAKNKL NGKWYYFDSS
NVSLASEDQI VTKAAYVLFY QRRDDEFYKT PSLSSSGSSD GGTRPSSSQ GFGDDEACSM DTN

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human USP4 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.

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 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.

Purity:

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

Product Details

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| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

Target Details

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|-------------------|--|
| Target: | USP4 |
| Alternative Name: | USP4 (USP4 Products) |
| Background: | <p>Hydrolase that deubiquitinates target proteins such as the receptor ADORA2A, PDPK1 and TRIM21. Deubiquitination of ADORA2A increases the amount of functional receptor at the cell surface. May regulate mRNA splicing through deubiquitination of the U4 spliceosomal protein PRPF3. This may prevent its recognition by the U5 component PRPF8 thereby destabilizing interactions within the U4/U6.U5 snRNP. May also play a role in the regulation of quality control in the ER. {ECO:0000269 PubMed:16316627, ECO:0000269 PubMed:16339847, ECO:0000269 PubMed:16472766, ECO:0000269 PubMed:20595234, ECO:0000269 PubMed:7784062}.</p> |
| Molecular Weight: | 109.5 kDa Including tag. |
| UniProt: | Q13107 |

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: | 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. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



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