

Datasheet for ABIN3136360  
**IWS1 Protein (AA 1-766) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	IWS1
Protein Characteristics:	AA 1-766
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IWS1 protein is labelled with His tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MDSEYYSGDQ SDDGGATPVQ DERDSGSDGE DGVTEQHSGS DTGSVDHHSE NETSDREDGL  
 AKIHNGTDSE NDEPSNANAS DSESEELHRP KSDSDSEEH AESPASDEN EPVNQHGSDS  
 ENEELLNGHA SDSEKEEVSK HAASDSEAED TLQPQVSESD SEDPPRPQAS DSENEEPPKP  
 RISDSESEEL PKPRVSDSES EDPPRPQASD SESEELPKPR VSDSESEDPP RPQASDSESE  
 ELPKPRVSDS ESEDPQKGPA SDSEAEDASR HKEKPDSDDS DGENKREDSE VQNESDGHTD  
 RKGLHSSDSE EEPKRQKID SDDDEEKEGD EEKVAKRKAA VLSDSEDDAG NASAKSRV  
 CDADSDSDV VSDKSGKRET TVASDSEEEA GKEESSVKKK EDKDLFGSDS ESGNEEENLI  
 ADIFGESGDE EEEFTGFNQ EDLEEEKNET QLKEAEDSDS DDNIKRGKHM DFLSDFEMML  
 QRKSMCGKR RRNRDGGTFI SDADDVVSAM IVKMNEAAEE DRQLNNQKKP ALKKLTLTPT  
 VVMHLKKQDL KETFIDSGVM SAIKEWLSPL PDRSLPALKI REELLKILQE LPSVSQETLK  
 HSGIGRAVMY LYKHPKESRS NKDMAGKLIN EWSRPIFGLT SNYKGMTREE REQRDLEQMP  
 QRRRLSSTGG QTPRRDLEKV LTGEEKALRP GDPGFCARAR VPMPNSNKDYV VRPKWNVEME

SSRFQASSKK GISRLDKQMR KFTDIRKKS SR SAHAVKISIE GNKMPL

**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.
- Mouse Iws1 Protein (raised in E. Coli) 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 bacterial culture:

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.

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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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## Product Details

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Grade: Crystallography grade

## Target Details

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Target: IWS1

Alternative Name: Iws1 ([IWS1 Products](#))

Background: Transcription factor which plays a key role in defining the composition of the RNA polymerase II (RNAPII) elongation complex and in modulating the production of mature mRNA transcripts. Acts as an assembly factor to recruit various factors to the RNAPII elongation complex and is recruited to the complex via binding to the transcription elongation factor SUPT6H bound to the C-terminal domain (CTD) of the RNAPII subunit RPB1 (POLR2A). The SUPT6H:IWS1:CTD complex recruits mRNA export factors (ALYREF/THOC4, EXOSC10) as well as histone modifying enzymes (such as SETD2) to ensure proper mRNA splicing, efficient mRNA export and elongation-coupled H3K36 methylation, a signature chromatin mark of active transcription (By similarity). {ECO:0000250}.

Molecular Weight: 86.2 kDa Including tag.

UniProt: [Q8C1D8](#)

## 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: Protein has not been tested for activity yet. 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 Advice: Avoid repeated freeze-thaw cycles.

## Handling

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Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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