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Datasheet for ABIN3136081

## MED23 Protein (AA 1-1367) (His tag)

### 1 Image

#### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | MED23  |
| Protein Characteristics:      | AA 1-1367  |
| Origin:                       | Mouse  |
| Source:                       | Insect Cells   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This MED23 protein is labelled with His tag.                         |
| Application:                  | Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS) |

#### Product Details

Sequence: METQLQSIFE EVVKTEIIEE AFPGMFMDTP EDEKTKLISC LAAFRQFWSG LSQESHEQCV  
 QWIVKFIHGQ HSPKRISFLY DCLAMAVETG LLPPRMVCES LINSDSLEWE RTQLWALTFK  
 LVRKIIGGVD YKGV RDLLKA ILEKILTIPN TVSSAVVQQL LAAREVIAYI LERNACLLPA YFAVTEIRKL  
 YPEGKLPHWL LGNLVSDFVD TFRPTARINS ICGRCSLLPV VNNSGAICNS WKLDPATLRF  
 PLKGLLPYDK DLFEPQTALL RYVLEQPYSR DMVCNMLGLN KQHKQRCPVL EDQLVDLVVY  
 AMERSETEEK FDDGGTSQLL WQHLSSQLIF FVLFQFASFP HVMVLSLHQL AGRGLIKGRD  
 HLMWVLLQFI SGSIQKNALA DFLPVMKLF D LLYPEKECIP VPDINKPQST HAFAMTCIWI  
 HLN RKAQNGD STLQIPIPHS LKLHHEFLQQ SLRNKSLQMN DYKIALLCNA YSTNSECFTL  
 PMGALVETIY GNGIMRVPLP GTSCLASASV TPLPMNLLDS LTVHAKMSLI HSIATRVIKL  
 AHTKSSVALA PALVETYSRL LVYMEIESLG IKGFIQQLP TVFKSHAWGI LHTLLEMFSH  
 RMHHIQPHYR VQLLSHLHTL AAVAQTNQNG LHLCVESTAL RLITALGSSE VQPQFTRFLN  
 DPKTVLSAES EELNRALILT LARATHV TDF FTGSDSIQGT WCKDILQTIM NFTP H WASH

TLSCFPAPLQ AFFKQNNVPQ ESRFNLKKNV EEEYRKWKSM TDENEITQF SVQGFPPPLFL  
CLLWKMLLET DHISQIGYKV LERIGARALV AHVRTFADFL VYEFSTSAGG QQLNKCIEL  
NDMVWKYNIV TLDRLILCLA MRSHEGNEAQ VCYFIIQLLL LKPNDFRNRV SDFVKENSPE  
HWLQSDWHTK HMSYHKKYPE KLYFEGLAEQ VDPPVPIQSP YLPIYFGNVC LRFLPVFDIV  
IHRFLELLPV SKSLETLLDH LGGLYKFHDR PVTYLYNTLH YYEMCLRNRD HLKRKLVHAI  
IGSLKDNRPQ GWCLSDTYLK HAMNAREDNP WVPEDSYECK LIGRLVDTMA GKSPGPFPPNC  
DWRFNFPNP AAHALHVTCV ELMALAVPGK DVGNALLNVV LKSQPLVPRE NITAWMNAIG  
LIITALPEPY WIVLHDRVN VISSSSLTSE TEWVGYPFRL FDFTACHQSY SEMSCSYTLA  
LAHAVWHHSS IGQLSLIPKF LTEALLPVVK TEFQLLYVYH LVGPFLQRFQ QERTRCMIEI  
GVAFYDMLLN VDQCSTHLNY MDPICDFLYH MKYMFTGDSV KEQVEKIICN LKPALKLRLR  
FITHISKMEP AVPPQALNSG SPAPQSNQVP ASLPVTQ

**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 Med23 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:

## Product Details

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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.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: MED23

Alternative Name: Med23 ([MED23 Products](#))

Background: Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional pre-initiation complex with RNA polymerase II and the general transcription factors (By similarity). Also required for transcriptional activation subsequent to the assembly of the pre-initiation complex. Required for transcriptional activation by adenovirus E1A protein. Required for ELK1-dependent transcriptional activation in response to activated Ras signaling. {ECO:0000250, ECO:0000269|PubMed:11934987, ECO:0000269|PubMed:14759369, ECO:0000269|PubMed:15542641, ECO:0000269|PubMed:15749018}.

Molecular Weight: 157.0 kDa Including tag.

UniProt: [Q80YQ2](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

## 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

## Application Details

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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.

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