

## Datasheet for ABIN3134690 MEIS2 Protein (AA 1-477) (His tag)



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	MEIS2
Protein Characteristics:	AA 1-477
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEIS2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	<p>MAQRYDELPH YGGMDGVGVP ASMYGDPHAP RPIPPVHHLN HGPPLHATQH YGAHAPHPNV  MPASMGSASN DALKRDKDAI YGHPLFPLLA LVFEKCELAT CTPREPGVAG GDVCSSDSFN  EDIAVFAKQV RAEKPLFSSN PELDNLMQA IQVLRFHLL LEKVHELCDN FCHRYISCLK  GKMPIDLVID ERDGSSKSDH EELSGSSTNL ADHNPSSWRD HDDATSTHSA GTPGPSSGGH  ASQSGDNSSE QGDGLDNSVA SPGTGDDDDP DKDKKRQKKR GIFPKVATNI MRAWLFQHLT  HPYPSEEQKK QLAQDTGLTI LQVNNWFINA RRRIVQPMID QSNRAGFLLD PSVSQGAAYS  PEGQPMGSFV LDGQQHMGIR PAGLQSM PGD YVSQGGPMGM GMAQPSYTPP QMTPHPTQLR  HGPPMHSYLP SHPHHPAMVM HGGPPTHGPM TMSAQSTML NSVDPNVGGQ VMDIHAQ</p> <p><b>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</b></p>
-----------	---

Characteristics:	<ul style="list-style-type: none"> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Meis2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process</li> </ul>
------------------	---

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

Target Details

Target:	MEIS2
Alternative Name:	Meis2 ( <a href="#">MEIS2 Products</a> )

## Target Details

Background:	Involved in transcriptional regulation. Binds to HOX or PBX proteins to form dimers, or to a DNA-bound dimer of PBX and HOX proteins and thought to have a role in stabilization of the homeoprotein-DNA complex. Isoform Meis2B is required for the activity of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells involved in the transcriptional activation of the ELA1 enhancer, the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element, MEIS2 is not involved in complex DNA-binding. Probably in complex with PBX1, is involved in transcriptional regulation by KLF4. Isoforms Meis2B and Meis2D can bind to a EPHA8 promoter sequence containing the DNA motif 5'-CGGTCA-3', in cooperation with a PBX protein (such as PBX2) is proposed to be involved in the transcriptional activation of EPHA8 in the developing midbrain. May be involved in regulation of myeloid differentiation. Can bind to the DNA sequence 5'-TGACAG-3' in the activator ACT sequence of the D(1A) dopamine receptor (DRD1) promoter and activate DRD1 transcription. {ECO:0000269 PubMed:11279116, ECO:0000269 PubMed:11438208, ECO:0000269 PubMed:17178831}.
-------------	---

Molecular Weight:	52.7 kDa Including tag.
-------------------	-------------------------

UniProt:	<a href="#">P97367</a>
----------	------------------------

## 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 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

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

## Handling

---

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