

## Datasheet for ABIN3136981 HDAC9 Protein (AA 1-588) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	HDAC9
Protein Characteristics:	AA 1-588
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	<p>MHSMISSVDV KSEVPMGLEP ISPLDLRTDL RMMMPVVDPV VREKQLQQEL LLIQQQQIQ  KQLLIAEFQK QHENLTRQHQ AQLQEHKEL LAIKQQQELL EKEQKLEQQR QEQUEVERHRR  EQQLPPLRGK DRGRERAVAS TEVKQKLQEF LLSKSATKDT PTNGKNHSVG RHPKLWYTAA  HHTSLDQSSP PLSGTSPSYK YTLPGAQDSK DDFPLRKTAS EPNLKVRSRL KQKVAERRSS  PLLRRKDGNL VTSFKKRVFE VAESSVSSSS PGSGPSSPNN GPAGNV TENE ASALPPTPHP  EQLVPQQRIL IHEDSMNLLS LYTSPSLPNI TLGLPAVPSP LNASNSLKDK QKCETQMLRQ  GVPLPSQYGS SIAASSSHVH VAMEGKPNSS HQALLQHLLL KEQMRQQKLL VAGGVPLHPQ  SPLATKERIS PGIRGTHKLP RHRPLNRTQS APLPQSTLAQ LVIQQQHQQF LEKQKQYQQQ  IHMNKLLSKS IEQLKQPGSH LEEAEEELQG DQSMEDRAAS KDNSARSDSS ACVEDTLGQV  GAVKVKEEPV DSEDAQIQE MECGEQAAFM QQVIGKDLAP GFVIKVII</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>
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## Product Details

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Hdac9 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:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

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### Grade:

Crystallography grade

## Target Details

Target:	HDAC9
Alternative Name:	Hdac9 ( <a href="#">HDAC9 Products</a> )
Background:	<p>Devoided of intrinsic deacetylase activity, promotes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) by recruiting HDAC1 and HDAC3. Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription, inhibits skeletal myogenesis and may be involved in heart development. Protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter.</p> <p>{ECO:0000269 PubMed:11390982, ECO:0000269 PubMed:12202037, ECO:0000269 PubMed:15711539, ECO:0000269 PubMed:16611996}.</p>
Molecular Weight:	66.6 kDa Including tag.
UniProt:	<a href="#">Q99N13</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development</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
Storage Comment:	Store at -80°C.

## Handling

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Expiry Date: Unlimited (if stored properly)

## Images

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