

Datasheet for ABIN3092927
HDAC9 Protein (AA 1-1011) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	HDAC9
Protein Characteristics:	AA 1-1011
Origin:	Human
Source:	Insect Cells
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:	MHSMISSVDV KSEVPVGLEP ISPLDLRTDL RMMMPVVDPV VREKQLQQEL LLIQQQQIQ KQLLIAEFQK QHENLTRQHQ AQLQEHKEL LAIKQQQELL EKEQKLEQQR QEQUEVERHRR EQQLPPLRGK DRGRERAVAS TEVKQKLQEF LLSKSATKDT PTNGKNHSVS RHPKLWYTAA HHTSLDQSSP PLSGTSPSYK YTLPGAQDAK DDFPLRKTAS EPNLKVRSRL KQKVAERRSS PLLRRKDGNV VTSFKKRMFE VTESSVSSSS PGSGPSSPNN GPTGSVTENE TSVLPPTPHA EQMVSQQRIL IHEDSMNLLS LYTSPSLPNI TLGLPAVPSQ LNASNSLKEK QKCETQTLRQ GVPLPGQYGG SIPASSSHPH VTLEGKPPNS SHQALLQHLL LKEQMRQQKL LVAGGVPLHP QSPLATKERI SPGIRGTHKL PRHRPLNRTQ SAPLPQSTLA QLVIQQQHQQ FLEKQKQYQQ QIHMNKLLSK SIEQLKQPGS HLEEAEEELQ GDQAMQEDRA PSSGNSTRSD SSACVDDTLG QVGAVKVKEE PVDSEDAQI QEMESGEQAA FMQQPFLEPT HTRALSVRQA PLAAVGMDGL EKHRLVSRTH SSPAASVLPH PAMDRPLQPG SATGIAYDPL MLKHQCVCGN STTHPEHAGR IQSIWSRLQE TGLLNKCERI QGRKASLEEI QLVHSEHSL LYGTNPLDGQ KLDPRILLGD
-----------	---

DSQKFFSSLP CGGLGVSDT IWNELHSSGA ARMAVGCVIE LASKVASGEL KNGFAVVRPP
GHHAEEESTAM GFCFFNSVAI TAKYLRDQLN ISKILIVDLD VHHGNGTQQA FYADPSILYI
SLHRYDEGNF FPGSGAPNEV GTGLGEGYNI NIAWTGGLDP PMGDVEYLEA FRTIVKPAK
EFDPMVLVS AGFDALEGHT PPLGGYKVTA KCFGHLTKQL MTLADGRVVL ALEGGHDLTA
ICDASEACVN ALLGNELEPL AEDILHQSPN MNAVISLQKI IEIQSMSLKF S

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 HDAC9 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.

Product Details

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:	HDAC9
Alternative Name:	HDAC9 (HDAC9 Products)
Background:	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). 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., Isoform 3 lacks active site residues and therefore is catalytically inactive. Represses MEF2-dependent transcription by recruiting HDAC1 and/or HDAC3. Seems to inhibit skeletal myogenesis and to 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.
Molecular Weight:	112.3 kDa Including tag.
UniProt:	Q9UKV0
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

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:	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.
Expiry Date:	Unlimited (if stored properly)

Images



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