

Datasheet for ABIN7554091

## HDAC9 Protein (AA 1-1011) (His tag)



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### Overview

Quantity:	1 mg
Target:	HDAC9
Protein Characteristics:	AA 1-1011
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat HDAC9 Protein expressed in mammalian cells.
Sequence:	<p>MHSMISSVDV KSEVPVGLEP ISPLDLRTDL RMMMPVVDPV VREKQLQQEL LLIQQQQIQ</p> <p>KQLLIAEFQK QHENLTRQH AQLQEHKEL LAIKQQQELL EKEQKLEQQR QEQUEVERHRR</p> <p>EQQLPPLRGK DRGRERAVAS TEVKQKLQEF LLSKSATKDT PTNGKNHSVS RHPKLWYTAA</p> <p>HHTSLDQSSP PLSGTSPSYK YTLPGAQDAK DDFPLRKTAS EPNLKVRSRL KQKVAERRSS</p> <p>PLLRKDGNN VTSFKKRMFE VTESSVSSSS PGSGPSSPNN GPTGSVTENE TSVLPPTPHA</p> <p>EQMVSQQRIL IHEDSMNLLS LYTSPSLPNI TLGLPAVPSQ LNASNSLKEK QKCETQTLRQ</p> <p>GVPLPGQYGG SIPASSSHPH VTLEGKPPNS SHQALLQHLL LKEQMRQKQL LVAGGVPLHP</p> <p>QSPLATKERI SPGIRGTHKL PRHRPLNRTQ SAPLPQSTLA QLVIQQQHQQ FLEKQKQYQQ</p> <p>QIHMNKLLSK SIEQLKQPGS HLEEAEELQ GDQAMQEDRA PSSGNSTRSD SSACVDDTLG</p> <p>QVGAVKVKEE PVDSDEDAQI QEMESGEQAA FMQQPFEPT HTRALSVRQA PLAAVGMDGL</p> <p>EKHRLVSRTH SSPAASVLPH PAMDRPLQPG SATGIAYDPL MLKHQCVCGN STTHPEHAGR</p>

IQSIWSRLQE TGLLNKCERI QGRKASLEEI QLVHSEHSL LYGTNPLDGQ KLDPRILLGD  
DSQKFFSSLP CGGLGVSDT IWNELHSSGA ARMAVGCVIE LASKVASGEL KNGFAVVRPP  
GHHAEEESTAM GFCFFNSVAI TAKYLRDQLN ISKILIVDLV VHHGNGTQQA FYADPSILYI  
SLHRYDEGNF FPGSGAPNEV GTGLGEGYNI NIAWTGGLDP PMGDVEYLEA FRTIVKPVAK  
EFDPMVLVS AGFDALEGHT PPLGGYKVT A KCFGHLTKQL MTLADGRVVL ALEGGHDLTA  
ICDASEACVN ALLGNELEPL AEDILHQSPN MNAVISLQKI IEIQSMSLKF S **Sequence without tag.**  
**The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HDAC9
Alternative Name:	HDAC9 ( <a href="#">HDAC9 Products</a> )
Background:	Histone deacetylase 9 (HD9) (EC 3.5.1.98) (Histone deacetylase 7B) (HD7) (HD7b) (Histone deacetylase-related protein) (MEF2-interacting transcription repressor MITR),FUNCTION: 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

## Target Details

an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription. {ECO:0000269|PubMed:11535832}., FUNCTION: 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: 111.3 kDa

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.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months