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Datasheet for ABIN7564072

**HDAC4 Protein (AA 1-1076) (His tag)**

## Overview

Quantity:	1 mg
Target:	HDAC4
Protein Characteristics:	AA 1-1076
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Hdac4 Protein expressed in mammalien cells.
Sequence:	MSSQSHPDGL SGRDQPVELL NPARVNHMPS TVDVATALPL QVAPTAVPMD LRLDHQFSLP LEPALREQQQL QQELLALKQK QQIQRQILIA EFQRQHEQLS RQHEAQLHEH IKQQQEMLAM KHQQELLEHQ RKLERHRREQ ELEKQHREQ LQQLKNKEKG KESAVASTEVE KMKLQEFVLN KKKALHRNL NHCISDPRY WYGKQTHSSL DQSSPPQSGV SASYNHPVLG MYDAKDDDFPL RKTASEPNLK LRSRLKQKVA ERRSSPLRR KDGPVATALK KRPLDVTDSA CSSAPGSGPS SPNSSSGNVS TENGIAPTVP SAPAETSLAH RLVTREGSVA PLPLYTSPSL PNITLGLPAT GPAAGAAGQQ DAERLALPAL QQRILFPGTH LTPYLSTSPLE ERDGAHAHNP LLQHMVLLEQ PPTQTPLVTG LGALPLHSQS LVGADRVSPS IHKLRQHRPL GRTQSAPLPQ NAQALQHLVI QQQHQQFLEK HKQQFQQQL HLSKIISKPS EPPRQPESHPE EETEELREH QALLDEPYLD RLPGQKEPSL AGVQVKQEP I EEEEEAEAT RETEPGQRPA TEQELLFRQQ ALLLEQQRIH QLRNYQASME AAGIPVSFGS HRPLSRAQSS PASATFPMSV QEPPTKPRFT TGLVYDTLML

KHQCTCGNTN SHPEHAGRIQ SIWSRLQETG LRGKCECIRG RKATLEELQT VHSEAHTLLY  
GTNPLNRQKL DSSLTSVFVR LPCGGVGVDS DTIWNEVHSS GAARLAVGCV VELVFKVATG  
ELKNGFAVVR PPGHHAEEEST PMGFCYFNSV AVAAKLLQQR LNVSKILVD WDVHHGNGTQ  
QAFYNDPNVL YMSLHRYDDG NFFPGSGAPD EVGTGPGVGF NVNMAFTGGL EPPMGDAEYL  
AAFRTVMPI ANEFAPDVVL VSSGFDAVEG HPTPLGGYNL SAKCFGYLTK QLMGLAGGRL  
VLALEGGHDL TAICDASEAC VSALLGNELE PLPEKVLHQR PNANAVHSME KVMDIHSKYW  
RCLQRLSSTV GHSLIEAQKC EKEEAETVTA MASLSVGVKP AEKRSEEEPM EEEPL **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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

HDAC4

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### Alternative Name:

Hdac4 ([HDAC4 Products](#))

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### Background:

Histone deacetylase 4 (HD4) (EC 3.5.1.98),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 an important role in transcriptional

## Target Details

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regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. Deacetylates HSPA1A and HSPA1A at 'Lys-77' leading to their preferential binding to co-chaperone STUB1. {ECO:0000250|UniProtKB:P56524}.

Molecular Weight: 118.6 kDa

UniProt: [Q6NZM9](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#)

## 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 though.

Restrictions: For Research Use only

## Handling

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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