

Datasheet for ABIN7554077
HDAC4 Protein (AA 1-1084) (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | HDAC4 |
| Protein Characteristics: | AA 1-1084 |
| Origin: | Human |
| 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

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|-----------|--|
| Purpose: | Custom-made recombinat HDAC4 Protein expressed in mammalian cells. |
| Sequence: | <p>MSSQSHPDGL SGRDQPVELL NPARVNHMPS TVDVATALPL QVAPSAVPM D LRLDHQFSLP VAEPALREQQ LQQELLALKQ KQIQRQILI AEFQRQHEQL SRQHEAQLHE HIKQQQEMLA MKHQQELLEH QRKLERHRQE QELEKQHREQ KLQQLKNKEK GKESAVASTE VKMKLQEFVL NKKKALAHRN LNHCISSDPR YWYGKQHQSS LDQSSPPQSG VSTSYNHPVL GMYDAKDDFP LRKTASEPNL KLRSRLKQKV AERRSSPLL R KDGPPVVTAL KKRPLDVTDS ACSSAPGSGP SSPNNSSGSV SAENGIAPAV PSIPAETSLA HRLVAREGSA APLPLYTSPS LPNITLGLPA TGPSAGTAGQ QDAERLTLPALQQRLSLFPG THLTPYLSTS PLERDGGAAH SP LLQH MVLL EQPPAQAPLV TGLGALPLHA QSLVGADRVS PSIHKLQRHR PLGRTQSAPL PQNAQALQHL VIQQHQQFL EKHKQQFQQQ QLQMNKIIPK PSEPARQPES HPEETEEELR EHQALLDEPY LDRLPGQKEA HAQAGVQVKQ EPIESDEEEA EPPREVEPGQ RQPSEQELLF RQQALLLEQQ RIHQRLRNYQA SMEAAGIPVS FGGHRPLSRA QSSPASATFP VSVQEPPTKP RFTTGLVYDT</p> |

Product Details

LMLKHQCTCG SSSSHPEHAG RIQSIWSRLQ ETGLRGKCEC IRGRKATLEE LQTVHSEAHT
LLYGTNPLNR QKLDISKLLG SLASVFLRLP CGGVGVSDSDT IWNEVHSAGA ARLAVGCVVE
LVFKVATGEL KNGFAVVRPP GHHAEEESTPM GFCYFNSVAV AAKLLQQRSL VSKILIVDWD
VHHGNGTQQA FYSDPSVLYM SLHRYDDGNF FPGSGAPDEV GTGPGVGFNV NMAFTGGLDP
PMGDAEYLAA FRTVVMPIAS EFAPDVVLVS SGFDAVEGHP TPLGGYNLSA RCFGYLTKQL
MGLAGGRIVL ALEGGHDLTA ICDASEACVS ALLGNELDPL PEKVLQQRPN ANAVRSMEKV
MEIHSKYWRC LQRTTSTAGR SLIEAQTEN EEAETVTAMA SLSVGKPAE KRPDEEPMEE EPPL

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:

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

HDAC4

Alternative Name:

HDAC4 ([HDAC4 Products](#))

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

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. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Deacetylates HSPA1A and HSPA1B at 'Lys-77' leading to their preferential binding to co-chaperone STUB1 (PubMed:27708256). {ECO:0000269|PubMed:10523670, ECO:0000269|PubMed:24413532, ECO:0000269|PubMed:27708256}.

Molecular Weight: 119.0 kDa

UniProt: [P56524](#)

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

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