

Datasheet for ABIN7565303
HDAC5 Protein (AA 1-1113) (His tag)



[Go to Product page](#)

Overview

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|-------------------------------|----------------------------------------------|
| Quantity: | 1 mg |
| Target: | HDAC5 |
| Protein Characteristics: | AA 1-1113 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HDAC5 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat Hdac5 Protein expressed in mammalien cells. |
| Sequence: | <p>MNSPNESDGM SGREPSLGIL PRTPLHSIPV AVEVKPVLPG AMPSSMGGGG GGSPSPVELR</p> <p>GALAGPMDPA LREQQLQQEL LVLKQQQQLQ KQLLFAEFQK QHDHLTRQHE VQLQKHLKQQ</p> <p>QEMLAARKRQQ ELEQQRQREQ QRQEELEKQR LEQQLLILRN KEKSKESAIA STEVKLRLQE</p> <p>FLLSKSKEPT PGGLNHSLPQ HPKCWGAHHA SLDQSSPPQS GPPGTPPSYK LPLLGPYDSR</p> <p>DDFPLRKTAS EPNLKVRSRL KQKVAERRSS PLLRRKDGTV ISTFKKRAVE ITGTGPGVSS</p> <p>VCNSAPGSGP SSPNSSHSTI AENGFTGSVP NIPTMIPQH RALPLDSSPN QFSLYTSPSL</p> <p>PNISLGLQAT VTVTNSHLTA SPKLSTQQEA ERQALQSLRQ GGTLTGKFMS TSSIPGCLLG</p> <p>VALEGDTSPH GHASLLQHVC SWTGRQQSTL IAVPLHGQSP LVTGERVATS MRTVGKLP RH</p> <p>RPLSRTQSSP LPQSPQALQQ LVMQQQHQQF LEKQKQQQMQ LGKILTKTGE LSRQPTTHPE</p> <p>ETEEELTEQQ EALLGEGALT IPREGSTESE STQEDLEEEE EEEEEEEEDC IQVKDEGDGES</p> <p>GPDEGPDLEE SSAGYKKLFA DAQQLQPLQV YQAPLSLATV PHQALGRTQS SPAAPGSMKS</p> |

PTDQPTVVKH LFTTGVVYDT FMLKHQCMCG NTHVHPEHAG RIQSIWSRLQ ETGLLGK CER
IRGRKATLDE IQTVHSEYHT LLYGTSPLNR QKLDSKLLG PISQKMYAML PCGGIGVDS D
TVWNEMHSSS AVRMAVGCLV ELAFKVAAGE LKNGFAIIRP PGHHAEESTA MGFCFFNSVA
ITAKLLQKQL SVGKVLIVDW DIHHGNGTQQ AFYNDPSVLY ISLHRYDNGN FFPGSGAPEE
VGGGPGVGYN VNVAWTGGVD PPIGDVEYLT AFRTVVMPIA QEFSPDVVLV SAGFDAVEGH
LSPLGGYSVT ARCFGHLTRQ LMTLAGGRVV LALEGGHDLT AICDASEACV SALLSVELQP
LDEAVLQKQP SVNAVATLEK VIEIQSKHWS CVQRFAAGLG CSLREAQTGE KEEAETVSAM
ALLSVGAEQA QAVATQEHSP RPAEEPMEQE PAL **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:

HDAC5

Alternative Name:

Hdac5 ([HDAC5 Products](#))

Background:

Histone deacetylase 5 (HD5) (EC 3.5.1.98) (Histone deacetylase mHDA1),FUNCTION:
Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones

Target Details

(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. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors (By similarity). Serves as a corepressor of RARA and causes its deacetylation (By similarity). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (By similarity). {ECO:0000250|UniProtKB:Q9UQL6}.

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight: | 120.9 kDa |
| UniProt: | Q9Z2V6 |
| Pathways: | Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development , Monocarboxylic Acid Catabolic 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 |