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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

HDAC1 (human, recombinant)

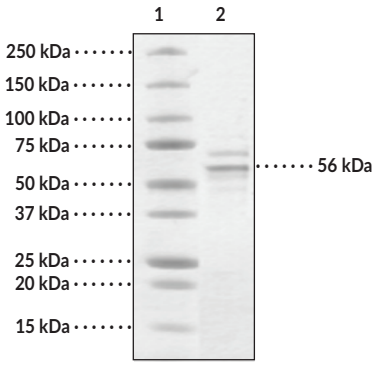
Item No. 10009231

Overview and Properties

Synonyms:	HDAC-1, Histone Deacetylase 1
Source:	Full length recombinant C-terminal His- and FLAG-tagged human protein expressed in baculovirus, *Sf*9 insect cells
Amino Acids:	2-482 (full length)
Uniprot No.:	Q13547
Molecular Weight:	56 kDa
Storage:	-80°C (as supplied)
Stability:	≥6 months
Purity:	≥55% estimated by SDS-PAGE
Supplied in:	40 mM Tris-HCl, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride and 20% glycerol
Unit Definition:	One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 °C in 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM $MgCl_2$, 0.1 mg/ml BSA, and 20 µM fluorogenic HDAC substrate 3 and HDAC1

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

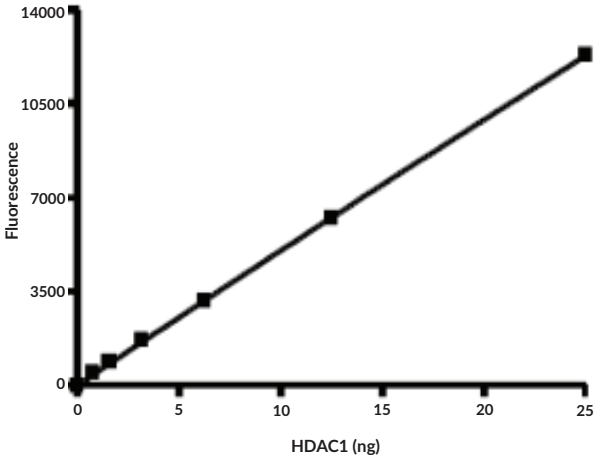
Images



Lane 1: MW Markers
Lane 2: HDAC1

SDS-PAGE Analysis of HDAC1. This protein forms a complex with endogeneous Hsp70 and is co-purified with tubulin. The identity of Hsp70 and tubulin was confirmed by MALDITOF mass spectrometry.

Representative gel image shown; actual purity may vary between each batch.



HDAC1 Deacetylase Activity. One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 °C in 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM $MgCl_2$, 0.1 mg/ml BSA, and 20 µM fluorogenic HDAC substrate 3 and HDAC1

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PRODUCT INFORMATION

Description

Histone deacetylases (HDACs) catalyze the deacetylation of core histones, resulting in tightening of nucleosomal integrity, restriction of the access of transcription factors, and suppression of transcription. HDACs also play an important role in mediating nuclear receptor functions by forming co-repressor complexes with nuclear receptors in the absence of ligands. They are also involved in mediating other transcription regulatory pathways by associating with transcription factors, such as E2F, TFIIE, TFIIF, NF-κB, p300, Stat3, p53, and the retinoblastoma (Rb) protein.[1] HDAC1 is a Class I HDAC which is related to the yeast HDAC Rpd3.[2] It is primarily localized to the nucleus with ubiquitous distribution throughout human cell lines and tissues. By modifying chromatin structure and other non-histone proteins, HDACs play important roles in controlling complex biological events, including cell development, differentiation, programmed cell death, angiogenesis, and inflammation. Considering these major roles, it is conceivable that dysregulation of HDACs and subsequent imbalance of acetylation and deacetylation may be involved in the pathogenesis of various diseases, including cancer and inflammatory diseases.[2]

References

1. Lin, H.Y., Chen, C.S., Lin, S.P., *et al.* Targeting histone deacetylase in cancer therapy. *Med. Res. Rev.* **26(4)**, 397-413 (2006).
2. Huang, L. Targeting histone deacetylases for the treatment of cancer and inflammatory diseases. *J. Cell. Physiol.* **209(3)**, 611-616 (2006).

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