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Produktinformation

- Forschungsprodukte & Biochemikalien
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- 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

HDAC8 (human, recombinant)

Item No. 19380

Overview and Properties

Synonym:	Histone Deacetylase 8
Source:	Active recombinant C-terminal hexahistidine-tagged protein expressed in *E. coli*
Amino Acids:	2-377 (full length)
Uniprot No.:	Q9BY41
Molecular Weight:	45.3 kDa
Storage:	-80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein
Stability:	≥6 months
Purity:	≥80% estimated by SDS-PAGE
Supplied in:	10 mM Tris, pH 7.5, containing 100 mM NaCl, 3 mM $MgCl_2$, and 20% glycerol
Protein Concentration:	***batch specific*** mg/ml
Activity:	***batch specific*** U/ml
Specific Activity:	***batch specific*** U/mg
Unit Definition:	One unit is the amount of enzyme required to release 1 nmol/min acetate from 100 µM acetylated p53 peptide (Item No. 10010995) at 37°C in 25 mM Tris, pH 8.0, 137 mM NaCl, 2.7 mM KCl, and 1 mM $MgCl_2$.

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

Images

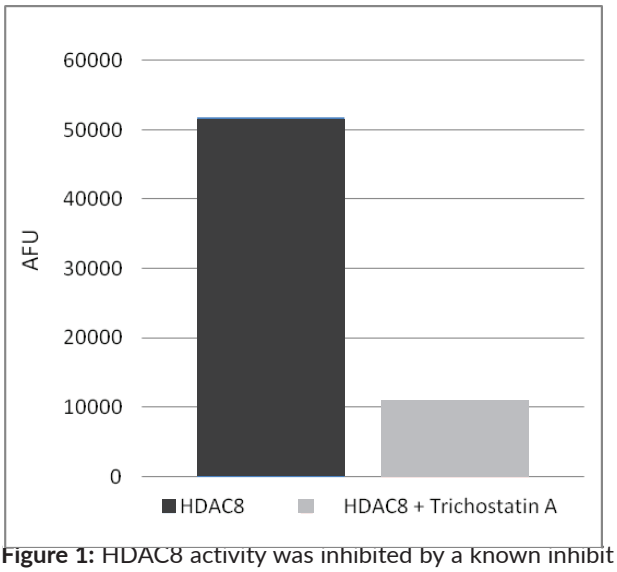
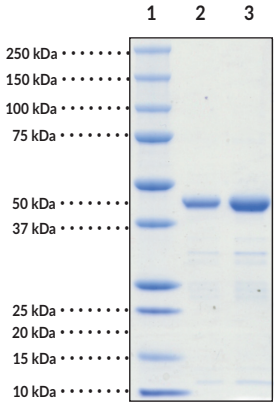


Figure 1: HDAC8 activity was inhibited by a known inhibit Trichostatin A.



Lane 1: MW Markers
Lane 2: HDAC8 (2 µg)
Lane 3: HDAC8 (4 µg)

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

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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-kB, p300, Stat3, p53, and the retinoblastoma (Rb) protein.[1] HDAC8 is a Class I HDAC which is related to the yeast HDAC Rpd3.[1,2] 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. *Medicinal Research Reviews* **26(4)**, 397-413 (2006).
2. Huang, L. Targeting histone deacetylases for the treatment of cancer and inflammatory diseases. *J. Cell. Physiol.* **39.1**, 611-616 (2006).

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