Recombinant Human HDAC1 Protein, His/FLAG-tagged

Cat. No. HDAC1-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC1 protein with a C-terminal His/FLAG-tag was expressed in Bacmid/Sf21 cells.
Species	Human
Source	Insect Cells
ProteinLength	1-482 aa
Description	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.
Molecular Mass	57 kDa
Purity	≥55% estimated by SDS-PAGE
Unit Definition	One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 centigrade in 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl2, 0.1 mg/mL BSA, and 20 μM fluorogenic HDAC substrate 3 and HDAC1.

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Stability	≥ 6 months
Storage	Store it at -80 centigrade
Storage Buffer	40 mM Tris-HCl, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride and 20% glycerol

GENE INFORMATION

Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens (human)]
Official Symbol	HDAC1
Synonyms	HDAC1; histone deacetylase 1; HD1; RPD3; KDAC1; GON-10; RPD3L1; histone deacetylase 1; reduced potassium dependency, yeast homolog-like 1
Gene ID	3065
mRNA Refseq	NM_004964
Protein Refseq	NP_004955
MIM	601241
UniProt ID	Q13547

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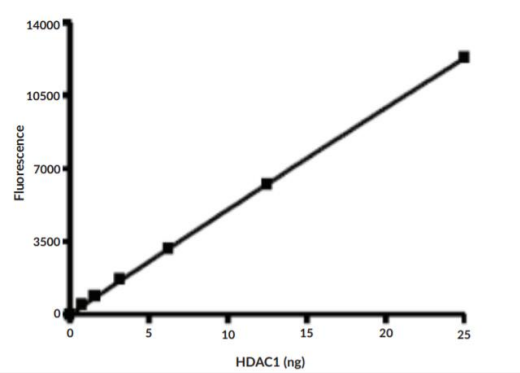
HDAC1 Deacetylase Activity



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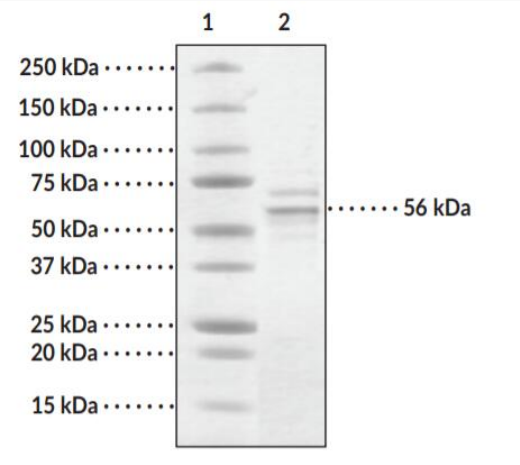
SDS-PAGE Analysis of HDAC1



Lane 1: MW Markers; Lane 2: HDAC1. This protein forms a complex with endogeneous Hsp 70 and is co-purified with tubulin. The identity of Hsp 70 and tubulin was confirmed by MALDITOF mass spectrometry. Representative gel image shown; actual purity may vary between each batch.

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