

Recombinant Human HDAC1 Protein, His/FLAG-tagged

Cat. No. HDAC1-060H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant C-terminal His- and FLAG-tagged human HDAC1 protein was expressed in baculovirus, Sf9 insect cells.
Species	Human
Source	Insect Cells
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	56 kDa
Purity	≥55%
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 MgCl ₂ , 0.1 mg/ml BSA, and 20 μM fluorogenic HDAC substrate 3 and HDAC1.
Stability	≥ 6 months

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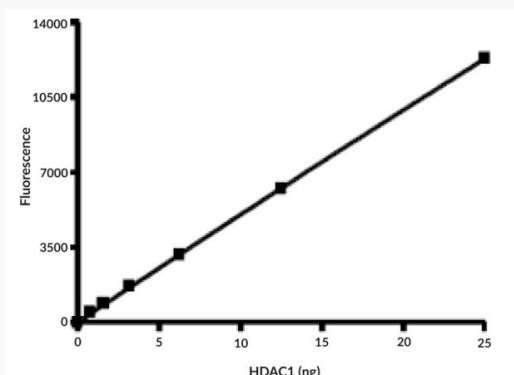
Storage	At -80 centigrade.
Storage Buffer	40 mM Tris-HCl, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride and 20% glycerol
GENE INFORMATION	
Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens (human)]
Official Symbol	HDAC1
Synonyms	HDAC1; histone deacetylase 1; HD1; RPD3; KDAC1; GON-10; RPD3L1; histone deacetylase 1; reduced potassium dependency, yeast homolog-like 1; EC 3.5.1.98
Gene ID	3065
mRNA Refseq	NM_004964
Protein Refseq	NP_004955
MIM	601241
UniProt ID	Q13547

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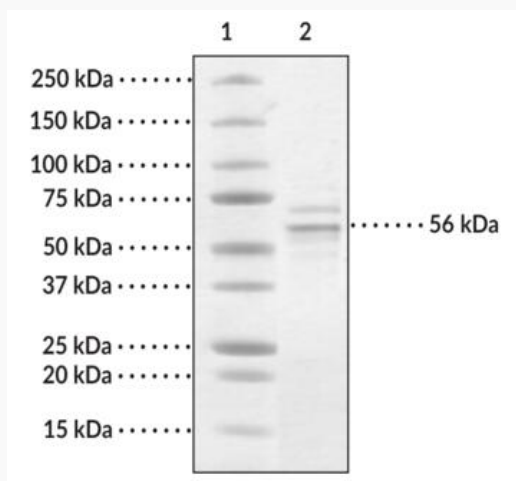
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HDAC1 Deacetylase Activity



SDS-PAGE analysis of HDAC1



Lane 1: MW Markers

Lane 2: HDAC1

This protein forms a complex with endogenous Hsp70 and is co-purified with tubulin. The identity of Hsp 70 and tubulin was confirmed by MALDITOF mass spectrometry.