

Active Recombinant Human Histone Deacetylase 1, His-tagged

Cat. No. HDAC1-392H Lot. No. (See product label)

SPECIFICATION

Product Overview	HDAC1 was cloned from human brain cDNA and expressed in insect cells using a baculoviral expression system. Full Length Human HDAC1 – Class I, 59 kD with his tag.
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.
Purity	Purified, active enzyme.
Purification Procedure	Ni ²⁺ Affinity Column
Activity	1000 units per vial. 1 unit is defined as the amount of enzyme that will convert 1 picomole per minute per ug at pH8 at 30°C.
Stability/Shelf-life	>6 months from date of shipment

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Buffer Composition	25mM Tris pH8, 120mM NaCl, 0.05% Tween-20 & 40% Glycerol
Storage	-80°C
Full Length	Full L.
GENE INFORMATION	
Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens]
Synonyms	HDAC1; DKFZp686H12203; GON-10; HD1; RPD3; RPD3L1; histone deacetylase 1; OTTHUMP00000008745; reduced potassium dependency, yeast homolog-like 1; DKFZp686H12203; EC 3.5.1.98.
Gene ID	3065
mRNA Refseq	NM_004964
Protein Refseq	NP_004955
MIM	601241
UniProt ID	Q13547
Chromosome Location	1p34
Pathway	Cell cycle; Chronic myeloid leukemia; Notch signaling pathway; Gene Expression; Signalling by NGF
Function	enzyme binding; histone deacetylase activity; hydrolase activity; identical protein

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binding; transcription activator activity; transcription factor activity; transcription factor binding; transcription factor binding

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