

Active Recombinant Human HDAC1, GST-tagged

Cat. No. HDAC1-1353H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human HDAC1 was expressed by baculovirus in Sf9 insect cells using a C-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	HDAC1 or Histone deacetylase 1 belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex which plays a key role in the regulation of eukaryotic gene expression. HDAC1 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, HDAC1 deacetylates p53 and modulates its effect on cell growth and apoptosis. HDAC1 is an essential element of the co-activation system for IFN-induced gene regulation and antiviral responses.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	8900 RLU/min/ng
Molecular Mass	~88 kDa

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Purity	>70%
Applications	HDAC Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens]
Official Symbol	HDAC1
Synonyms	HDAC1; histone deacetylase 1; RPD3L1; GON 10; HD1; reduced potassium dependency, yeast homolog-like 1; RPD3; GON-10; DKFZp686H12203;
Gene ID	3065
mRNA Refseq	NM_004964
Protein Refseq	NP_004955
MIM	601241
UniProt ID	Q13547
Chromosome Location	1p34
Pathway	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction,

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conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;

Function

NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); RNA polymerase II transcription corepressor activity; activating transcription factor binding; core promoter binding; enzyme binding; histone deacetylase activity; histone deacetylase activity; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; protein binding; protein deacetylase activity; protein deacetylase activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription factor binding;

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