

## Recombinant Human HDAC1, His tagged

**Cat. No.** HDAC1-8331H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	HDAC1 Human Recombinant fused with amino acid His tag at C-terminus produced in Hi-5 is a single, glycosylated, polypeptide chain containing 490 amino acids (1-482 a.a.) and having a molecular mass of 56.2 kDa. The HDAC1 is purified by chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Hi-5 Insect Cells
<b>ProteinLength</b>	1-482 a.a.
<b>Description</b>	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.
<b>Form</b>	The HDAC1 solution contains PBS (pH 7.4) and 10% glycerol.
<b>AA Sequence</b>	MAQTQGTRRK VCYYYDGDVG NYYYGQGHPM KPHRIRMTHN LLLNYGLYRK MEIYRPHKAN AEEMTKYHSD DYIKFLRSIR PDNMSEYSKQ MQRFNVGEDC PVFDGLFEFC QLSTGGSVAS AVKLNKQQTD IAVNWAGGLH HAKKSEASGF CYVNDIVLAI LELLKYHQRV LYIDIDIHHG DGVVEAFYTT DRVMTVSFHK

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YGEYFPGTGD LRDIGAGKGK YYAVNYPLRD GIDDESIEAI FKPVMSKVME  
 MFQPSAVVLQ CGSDSLSGDR LGCNLTIKG HAKCVEFVKS FNLPLMLGG  
 GGYTIRNVAR CWTYETAVAL DTEIPNELPY NDYFEYFGPD FKLHISPSNM  
 TNQNTNEYLE KIKQRLFENL RMLPHAPGVQ MQAIPEDAIP EESGDEDEDD  
 PDKRISICSS DKRIACEEEF SDSEEEGEGG RKNSSNFKKA KRVKTEDEKE  
 KDPEEKREVT EEEKTKKEKP EAKGVKEEVK LASRHHHHHH.

**Purity** Greater than 90.0% as determined by RP-HPLC and analysis by SDS-PAGE

**Notes** For research use only.

**Storage** HDAC1 although stable 4 °C for weeks, should be stored desiccated below -18 °C.  
 For long term storage it is recommended to add carrier protein (0. 1% HSA or BSA). Please prevent freeze/thaw cycles.

## 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

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<b>UniProt ID</b>	Q13547
<b>Chromosome Location</b>	1p34
<b>Pathway</b>	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, 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;
<b>Function</b>	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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