

Recombinant Human HDAC1, His tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Hi-5 Insect Cells
Protein Length	1-482 a.a.
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.
Form	The HDAC1 solution contains PBS (pH 7.4) and 10% glycerol.
AA Sequence	MAQTQGTRRK VCYYYDGDVG NYYYGQGHM KPHRIRMTHN LLLNYGLYRK MEIYRPHKAN AEEMTKYHSD DYIKFLRSIR PDNMSEYSKQ MQRFNVGEDC PVFDGLFEFC QLSTGGSVAS AVKLNKQQTD IAVNWAGGLH HAKKSEASGF CYVNDIVLAI LELLKYHQRV LYIDIDIHHG DGVEEAFYTT 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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UniProt ID	Q13547
Chromosome Location	1p34
Pathway	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;
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;