

Active Recombinant Human HDAC2 protein, His-tagged

Cat. No. HDAC2-393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HDAC2 fused with His tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-488 aa
Description	HDAC2 is a member of the histone deacetylase family that performs through the construction of large multiprotein complexes and are in charge of the deacetylation of lysine residues on the N-terminal region of the core histones. HDAC2 forms transcriptional repressor complexes by relating to a diversity of proteins, like YY1- a mammalian zinc-finger transcription factor. Additionally, HDAC2 has a vital part in transcriptional regulation, cell cycle progression and developmental procedures.
Form	The HDAC2 solution contains 20 mM Tris-HCl buffer (pH 8.0), 300 mM NaCl and 20% Glycerol. Frozen solution.
Bio-activity	> 500 pmol/min/μg
Molecular Mass	56.2 kDa, observed by reducing SDS-PAGE.
AA Sequence	MAYSQGGGKK KVCYYYDGDI GNYYYGQGHP MKPHRIRMTHNLLLNYGLYR KMEIYRPHKA TAEEMTKYHS DEYIKFLRSIRPDNMSEYSK QMQRFNVGED CPVFDGLFEF CQLSTGGSVA

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GAVKLNRRQQT DMAVNWAGGL HHAKKSEASG FCYVNDIVLAILELLKYHQR
 VLYIDIDIHH GDGVVEAFYT TDRVMTVSFHKYGEYFPGTG DLRDIGAGKG
 KYYAVNFPMR DGIDDESYGQ
 IFKPIISKVM EMYQPSAVVL QCGADSLSGD RLGCFLNTVKGHAKCDEVVK
 TFNLPLLMLG GGGYTIRNVA RCWTYETAVALDCEIPNELP YNDYFEYFGP
 DFKLHISPSN MTNQNTPEYM
 EKIQRFLFEN LRMLPHAPGV QMQAIPEDAV HEDSGDEDGEDPDKRISIRA
 SDKRIACDEE FSDSEDEGEG GRRNVADHKKGAKKARIEED KKETEDKKTD
 VKEEDKSKDN SGEKTDTKGT
 KSEQLSNPGH HHHHH

Endotoxin < 1 EU/μg, determined by LAL method.

Purity > 80% by SDS-PAGE analysis.

Storage HDAC2 remains stable up to 6 months at -80 centigrade from date of receipt. For maximum recovery of product, centrifuge original vial prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name HDAC2 histone deacetylase 2 [Homo sapiens]

Official Symbol HDAC2

Synonyms HDAC2; histone deacetylase 2; RPD3; YAF1; YY1-associated factor 1; transcriptional regulator homolog RPD3; HD2;

Gene ID 3066

mRNA Refseq NM_001527

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Protein Refseq	NP_001518
MIM	605164
UniProt ID	Q92769
Chromosome Location	6q21
Pathway	Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Direct p53 effectors, 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); chromatin binding; enzyme binding; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); hydrolase activity; protein binding; protein deacetylase activity; sequence-specific DNA binding; transcription factor binding;