

## Active Recombinant Human HDAC2 protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human HDAC2 fused with His tag was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-488 aa
<b>Description</b>	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.
<b>Form</b>	The HDAC2 solution contains 20 mM Tris-HCl buffer (pH 8.0), 300 mM NaCl and 20% Glycerol. Frozen solution.
<b>Bio-activity</b>	> 500 pmol/min/μg
<b>Molecular Mass</b>	56.2 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	MAYSQGGGKK KVCYYYDGDI GNYYYGQGHP MKPHRIRMTHNLLLNYGLYR KMEIYRPHKA TAEEMTKYHS DEYIKFLRSIRPDNMSEYSK QMQRFNVED CPVFDGLFEF CQLSTGGSVA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GAVKLNRRQQT DMAVNWAGGL HHAKKSEASG FCYVNDIVLAILELLKYHQR  
 VLYIDIDIHH GDGVVEAFYT TDRVMTVSFHKYGEYFPGTG DLRDIGAGKG  
 KYYAVNFPMR DGIDDESYGQ  
 IFKPIISKVM EMYQPSAVVL QCGADSLSGD RLGCFNLTVKGHAKCVEVVK  
 TFNLPLLMLG GGGYTIRNVA RCWTYETAVALDCEIPNELP YNDYFEYFGP  
 DFKLHISPSN MTNQNTPEYM  
 EKIKQRLFEN 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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<b>Protein Refseq</b>	NP_001518
<b>MIM</b>	605164
<b>UniProt ID</b>	Q92769
<b>Chromosome Location</b>	6q21
<b>Pathway</b>	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;
<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); 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;

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