

## Active Recombinant Human HDAC3, GST-tagged

**Cat. No.** HDAC3-1356H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human HDAC3 was expressed by baculovirus in Sf9 insect cells using a C-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	<p>HDAC3 or Histone deacetylase 3 belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex that represses transcription when tethered to a promoter. HDAC3 may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. HDAC3 can also down-regulate p53 function and thus modulate cell growth and apoptosis. Catalytic domain of HDAC4 can interact with HDAC3 via the transcriptional corepressor NCOR2. RELA is a nonhistone substrate of HDAC3 and IKBA-dependent nuclear export of the HDAC3-deacetylated RELA replenishes the depleted cytoplasmic pool of latent NFkB-IKBA complexes.</p>
<b>Form</b>	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.
<b>Bio-activity</b>	125RLU/min/ng
<b>Molecular Mass</b>	~83 kDa

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<b>Purity</b>	>70%
<b>Applications</b>	HDAC Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	HDAC3 histone deacetylase 3 [ Homo sapiens ]
<b>Official Symbol</b>	HDAC3
<b>Synonyms</b>	HDAC3; histone deacetylase 3; HD3; RPD3; RPD3 2; SMAP45; RPD3-2;
<b>Gene ID</b>	8841
<b>mRNA Refseq</b>	NM_003883
<b>Protein Refseq</b>	NP_003874
<b>MIM</b>	605166
<b>UniProt ID</b>	O15379
<b>Chromosome Location</b>	5q31.1-q31.2
<b>Pathway</b>	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Cell cycle, organism-specific biosystem; Circadian Clock, organism-specific

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biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem;

**Function**

DNA binding; 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; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; protein binding; protein deacetylase activity; transcription corepressor activity; transcription factor binding;

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