Recombinant Human HDAC3, His-tagged

Cat. No. HDAC3-390H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HDAC3 was expressed in insect cell.
Species	Human
Source	Insect Cells
ProteinLength	428 amino acids
Description	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene.
Form	103 μg/μl in 50 mM Tris, pH 8.0, 138 mM NaCl and 10% glycerol.
Specific activity	>1 U/g.
Molecular Mass	49 kDa
Purity	~50% by SDS-PAGE.

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Applications	Study HDAC3 kinetics and inhibitor sensitivity and also the effect of the enzyme in transcriptional regulation, cell cycle progression, and oncogenesis.

GENE INFORMATION

Gene Name	HDAC3 histone deacetylase 3 [Homo sapiens (human)]
Official Symbol	HDAC3
Synonyms	HDAC3; histone deacetylase 3; HD3; RPD3; RPD3-2; histone deacetylase 3; SMAP45; EC 3.5.1.98
Gene ID	8841
mRNA Refseq	NM_003883
Protein Refseq	NP_003874
MIM	605166
UniProt ID	O15379
Chromosome Location	5q31
Pathway	Alcoholism; BMAL1:CLOCK/NPAS2 Activates Circadian Expression; Cell cycle; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants
Function	chromatin DNA binding; enzyme binding; histone deacetylase activity; protein binding

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