Recombinant Human Histone Deacetylase 8

Cat. No. HDAC8-1655H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Sf9 Cells
Description	HDAC8 is a member of the class I Histone Deacetylases. HDAC8 are important enzymes for the transcriptional regulation of gene expression in eukaryotic cells. HDAC8 catalyze the removal of acetyl groups from lysines near the N-termini of histones. Human HDAC8 have been implicated in a variety of human diseases such as cardiomyopathy, osteodystrophy, neurodegenerative disorders, aging and cancer. Expression of HDAC8 is restricted to cells showing smooth muscle differentiation in normal human tissue and is a novel marker of smooth muscle differentiation. Like other class I and II HDAC members, the activity of HDAC8 is sensitive to HDAC inhibitor Trichostatin A (TSA).
Biological Activity	Activity of rh-HDAC8 was tested using Arg-His-Lys (Ac)-Ly (Ac)-AMC, a fluorogenic, acetylated peptide based on residues 379-382 of p53 as a substrate.
Molecular Weight	44 kDa
Form	Liquid in 25 mM Tris, pH 7.5, 100 mM NaCl, 2.7 mM KCl, 3 mM MgCl2, 10 % glycerol.
Appearance	Liquid
Purity	> 90% by SDS-PAGE

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Storage	Stable for 1 year at -70°C. Avoid multipie freeze/thaw cycles as activity may decrease.
Pathways	Cell cycle; Signaling events mediated by HDAC Class I

GENE INFORMATION

Gene Name	HDAC8 histone deacetylase 8 [Homo sapiens]
Official Symbol	HDAC8
Synonyms	HDAC8; histone deacetylase 8; RPD3; HDACL1; histone deacetylase-like 1; EC 3.5.1.98; HD8
Gene ID	55869
mRNA Refseq	NM_018486
Protein Refseq	NP_060956
MIM	300269
UniProt ID	Q9BY41
Chromosome Location	Xq13
Function	histone deacetylase activity; hydrolase activity; transcription factor binding; metal ion binding; histone deacetylase activity

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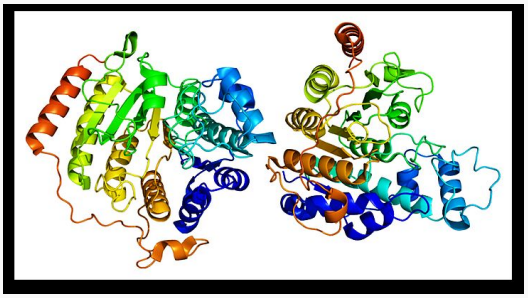
PDB rendering basedon 1t64.	

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