

Active Recombinant Full Length Human Histone Deacetylase 8, His-tagged

Cat. No. HDAC8-27529TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human), C-terminal His tag.
Species	Human
ProteinLength	1-377aa
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 class I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.
Biological activity	10 U/ug. One U =1 pmol/min, Assay condition: 25 mM Tris/Cl, pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl ₂ , and 0.1 mg/ml BSA, 100 uM Biomol substrate, and 15 ng/ul HDAC8. Incubation condition: 60 min at 30°C.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 50mM Tris HCl, 138mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the histone deacetylase family. HD type 1 subfamily.
Full Length	Full L.

GENE INFORMATION

Gene Name	HDAC8 histone deacetylase 8 [Homo sapiens]
Official Symbol	HDAC8
Synonyms	HDAC8; histone deacetylase 8; HDACL1, histone deacetylase like 1; RPD3;
Gene ID	55869
mRNA Refseq	NM_001166418
Protein Refseq	NP_001159890
MIM	300269
Uniprot ID	Q9BY41
Chromosome Location	Xq13

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Pathway	Cell cycle, organism-specific biosystem; Signaling events mediated by HDAC Class I, 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); histone deacetylase activity; histone deacetylase activity (H3-K16 spe;

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