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

Cat. No. HDAC8-759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human histone deacetylase 8 (HDAC8) was fused to at the C-terminus to a His•Tag sequence at and expressed in*S. frugiperda*insect cells using a baculovirus expression system. MW = 46400 Da.
Species	Human
Source	S.frugiperda
ProteinLength	1-377aa
Description	HDAC8 phosphorylated in vivo by PKA results in decreased activity, which leads to the hyperacetylation of histones H3 and H4. HDAC8 may play a role in one of the most frequent types of acute myeloid leukemia (AML). The active deacetylase is useful in the study of HDAC8 regulation and for inhibitor screening.
Purity	≥90% by SDS-PAGE.
Form	Liquid. In 138 mM NaCl, 25 mM Tris-HCl, 10% glycerol, 0.05% TWEEN-20 detergent, pH 8.0. Please refer to vial label for lot-specific concentration.
Specific Activity	≥10 units/μg protein.
Unit Definition	One unit is defined as the the amount of enzyme required to deacetylate 1 picomol fluorescent peptide substrate [Arg-His-Lys(Ac)-Lys(Ac)] per min at 30°C.

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Recommended Reaction Conditions	137 mM NaCl, 25 mM Tris-HCl, 2.7 mM KCl, 1 mM MgCl2, pH 8.0, 100 μM fluorescent substrate [Arg-His-Lys(Ac)-Lys(Ac)], 100 μg/ml BSA, 15 ng/ml HDAC8; incubate at 30°C for 60 min.
Toxicity	Standard Handling (MSDS available upon request).
Storage	≤ -70℃. Avoid freeze/thaw. Following reconstitution, aliquot and freeze (-70°C).

GENE INFORMATION

Gene Name	HDAC8 histone deacetylase 8 [Homo sapiens]
Synonyms	HDAC8; histone deacetylase-like 1; RPD3; HDACL1; histone deacetylase 8; 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
Pathway	Gene Expression
Function	histone deacetylase activity; hydrolase activity; transcription factor binding

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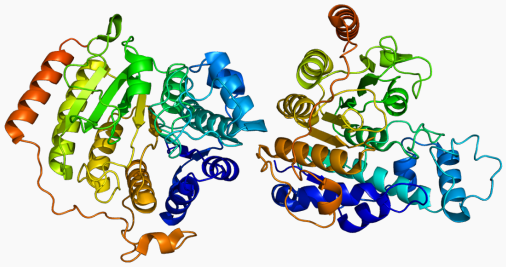
PDB rendering based on 1t64.	

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