

## Recombinant Human HDAC8 Protein, His-tagged

Cat. No. HDAC8-26H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human HDAC8(2-377) protein with a C-terminal His-tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-377
<b>Description</b>	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.
<b>Molecular Mass</b>	45.3 kDa
<b>Purity</b>	≥85% estimated by SDS-PAGE
<b>Unit Definition</b>	One unit is the amount of enzyme required to release 1 nmol/min acetate from 100 μM acetylated p53 peptide at 37 centigrade in 25 mM Tris, pH 8.0, 137 mM NaCl, 2.7 mM KCl, and 1 mM MgCl <sub>2</sub> .

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<b>Stability</b>	≥ 6 months
<b>Storage</b>	Store it at -80 centigrade
<b>Storage Buffer</b>	50 mM Tris, pH 7.5, with 200 mM sodium chloride 2.5 mM potassium chloride, 1 mM TCEP, 25% glycerol

## GENE INFORMATION

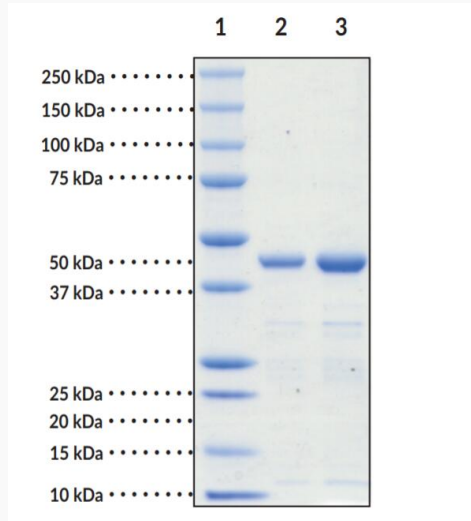
<b>Gene Name</b>	HDAC8 histone deacetylase 8 [ Homo sapiens (human) ]
<b>Official Symbol</b>	HDAC8
<b>Synonyms</b>	HDAC8; histone deacetylase 8; HD8; WTS; RPD3; CDA07; CDLS5; KDAC8; MRXS6; HDACL1; histone deacetylase 8; histone deacetylase-like 1
<b>Gene ID</b>	55869
<b>mRNA Refseq</b>	NM_001166418
<b>Protein Refseq</b>	NP_001159890
<b>MIM</b>	300269
<b>UniProt ID</b>	Q9BY41

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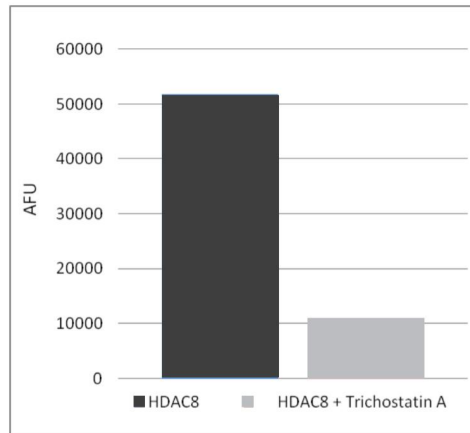
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**SDS-PAGE Analysis  
of HDAC8**



Lane 1: MW Markers; Lane 2: HDAC8 (2 µg); Lane 3: HDAC8 (4 µg).  
Representative gel image shown; actual purity may vary between each batch.



HDAC8 activity was inhibited by a known inhibit Trichostatin A.

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