

## Recombinant Human HDAC5 Protein, His-tagged

Cat. No. HDAC5-48H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human HDAC5(657-1,123) protein with a C-terminal His-tag was expressed in baculovirus expression vector system.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	657-1,123
<b>Description</b>	<p>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 class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene.</p>
<b>Molecular Mass</b>	51 kDa
<b>Endotoxin</b>	<1.0 EU/μg, determined by the LAL endotoxin assay
<b>Purity</b>	≥90% estimated by SDS-PAGE

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<b>Unit Definition</b>	One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 centigrade in 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl <sub>2</sub> , 0.1 mg/mL BSA, and 20 μM fluorogenic HDAC class 2a substrate.
<b>Stability</b>	≥ 6 months
<b>Storage</b>	Store it at -80 centigrade
<b>Storage Buffer</b>	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 225 imidazole, and 10% glycerol

## GENE INFORMATION

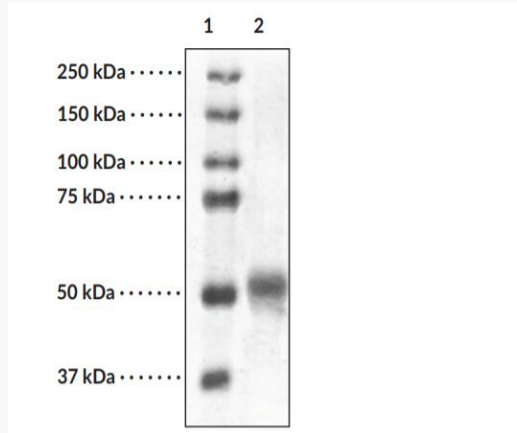
<b>Gene Name</b>	HDAC5 histone deacetylase 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	HDAC5
<b>Synonyms</b>	HDAC5; histone deacetylase 5; HD5; NY-CO-9; histone deacetylase 5; antigen NY-CO-9
<b>Gene ID</b>	10014
<b>mRNA Refseq</b>	NM_001015053
<b>Protein Refseq</b>	NP_001015053
<b>MIM</b>	605315
<b>UniProt ID</b>	Q9UQL6

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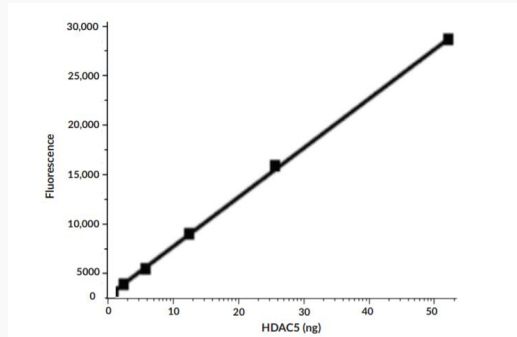
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### SDS-PAGE Analysis of HDAC5



Lane 1: MW Markers; Lane 2: HDAC5 (3  $\mu$ g). Representative gel image shown; actual purity may vary between each batch.

### HDAC5 Deacetylase Activity



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