Recombinant Human HDAC5 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human HDAC5(657-1,123) protein with a C-terminal His-tag was expressed in baculovirus expression vector system.
Species	Human
Source	Insect Cells
ProteinLength	657-1,123
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 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.
Molecular Mass	51 kDa
Endotoxin	<1.0 EU/μg, determined by the LAL endotoxin assay
Purity	≥90% estimated by SDS-PAGE

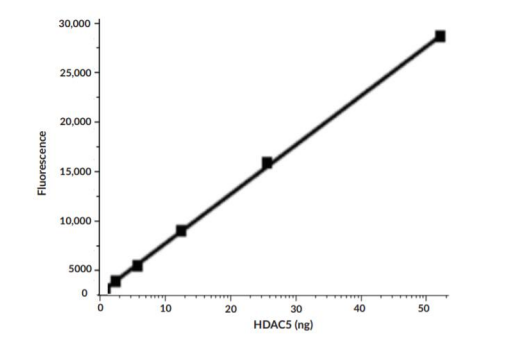
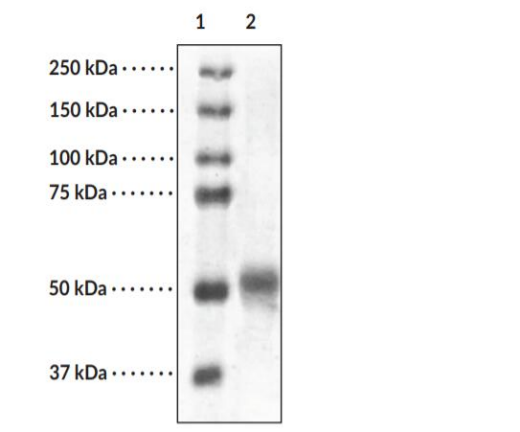
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Unit Definition	One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 centigrade in 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl2, 0.1 mg/mL BSA, and 20 μM fluorogenic HDAC class 2a substrate.
Stability	≥ 6 months
Storage	Store it at -80 centigrade
Storage Buffer	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 225 imidazole, and 10% glycerol

GENE INFORMATION

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

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HDAC5 Deacetylase Activity	
SDS-PAGE Analysis of HDAC5	 Lane 1: MW Markers; Lane 2: HDAC5 (3 µg). Representative gel image shown; actual purity may vary between each batch.

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