Active Recombinant Human Histone Deacetylase 5, GST-tagged

Cat. No. HDAC5-396H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full Length Human HDAC5–Class IIa, 150kD with GST tag.
Species	Human
Source	Insect Cells
Description	Histone deacetylase 5, also known as HDAC5, is a human gene. 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.
Purity	Purified, active enzyme.
Purification Procedure	Glutathione Column
Activity	1000 units per vial. 1 unit is defined as the amount of enzyme that will convert

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	1picomole per minute per ug of protein at pH8 at 30°C.
Stability/Shelf-life	>6 months from date of shipment
Buffer Composition	25mM Tris pH8, 120mM NaCl, 0.05% Tween-20 & 40% Glycerol.
Storage	–80°C
Full Length	Full L.

GENE INFORMATION

Gene Name	HDAC5 histone deacetylase 5 [Homo sapiens]
Synonyms	HDAC5; FLJ90614; HD5; NY-CO-9; HDAC5 histone deacetylase 5; histone deacetylase 5; antigen NY-CO-9; EC 3.5.1.98; KIAA0600; Antigen NY-CO-9.
Gene ID	10014
mRNA Refseq	NM_001015053
Protein Refseq	NP_001015053
MIM	605315
UniProt ID	Q9UQL6
Chromosome Location	17q21
Pathway	Gene Expression

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Function	histone deacetylase activity; hydrolase activity; specific transcriptional repressor activity; transcription corepressor activity; transcription factor binding

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