

## Recombinant Human HDAC5 Protein (681-1087), His tagged

Cat. No. HDAC5-2638H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human HDAC5 (681-1087) protein fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	681-1087
<b>Description</b>	<p>Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Serves as a corepressor of RARA and causes its deacetylation. In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response.</p>
<b>Molecular Mass</b>	43.9 kDa
<b>Purity</b>	>90 % as determined by SDS-PAGE.

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<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

## 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; FLJ90614; KIAA0600; NY CO 9; antigen NY-CO-9; HD5; 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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