

Active Recombinant Human HDAC5 Protein

Cat. No. HDAC5-312H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HDAC5 Protein is produced by HEK293 cells expression system.
Species	Human
Source	HEK293
ProteinLength	amino acids 679-1095
Description	Human HDAC5 is composed of 1122 amino acid residues. The deacetylase domain of HDAC5 is located at the C-terminal half of the molecule. The N-terminal non-deacetylase domain does not show any significant homology with any published sequence. Both domains are required for HDAC5-mediated repression of gene transcription. HDAC5 interacts with a growing number of transcriptional factors including MEF2A as well as other HDAC proteins. The interacting complexes bind to specific regions of chromatin and regulate gene transcription in these regions.
Form	Liquid, In 30 mM HEPES, 140 mM NaCl, 10 mM KCl, 3% glycerol, 0.25 mM TCEP, pH 7.6.
Bio-activity	Deacetylation activity was determined using the Boc-K(TFA)-AMC substrate. Reactions were carried out in a 384-well plate in 20 µl of reaction buffer comprising of 50 mM HEPES, 140 mM NaCl, 10 mM KCl, 1 mg/ml bovine serum albumin (BSA), and 1 mM TCEP, pH 7.4, for 30 min at 37°C. The reaction was stopped by addition of 20 µl of trypsin solution (2 mg/ml trypsin) and the fluorescence signal of released AMC

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was quantified using a fluorometer. The enzyme kinetic values were calculated by nonlinear regression analysis.

Molecular Mass	45 kDa
Purity	≥95% by SDS-PAGE
Notes	For Research Use Only! Not For Use in Humans.
Storage	Store at -80 centigrade.
Handling	Thaw on ice, and aliquot into smaller working quantities to avoid multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	HDAC5 histone deacetylase 5 [Homo sapiens]
Official Symbol	HDAC5
Synonyms	HDAC5; histone deacetylase 5; FLJ90614; KIAA0600; NY CO 9; antigen NY-CO-9; HD5; NY-CO-9;
Gene ID	10014
mRNA Refseq	NM_001015053
Protein Refseq	NP_001015053
MIM	605315

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UniProt ID

Q9UQL6

Coomassie blue-stained SDS-PAGE (10% acrylamide) of 1 ug of HDAC5 catalytic domain.

Steady-state kinetics of human HDAC5 Catalytic Domain using the Boc-K(TFA)-AMC substrate. Data represent mean values $\pm$ s.d.; n=3.

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