

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 μ 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 μ 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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