

Active Recombinant Human HDAC5 Protein, His-tagged

Cat. No. HDAC5-96H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HDAC5 fused with His tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	476 amino acids
Description	HDAC5 is a member of the histone deacetylase family. It is 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. HDAC5 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.
Form	The HDAC5 solution contains 20 mM Tris-HCl buffer (pH 8.0), 300 mM NaCl and 20% Glycerol. Frozen solution.
Bio-activity	> 10000 pmol/min/μg. Assay condition: 50 mM Tris-HCl, pH8.0, 136 mM NaCl, 2.8 mM KCl, 1 mM MgCl ₂ , 0.5 mg/ml BSA, 0.005% Tween-20, 20 M AMC-RHKKAc and HDAC5. HDAC reaction was done for 30 min at 37 centigrade followed by treatment

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with equivoluminal HDAC developer buffer (40 μ M Trypsin, 40 μ M CaCl₂ and 20 μ M Trichostatin A for ~60 min at RT.

Molecular Mass 52.2 kDa, observed by reducing SDS-PAGE.

AA Sequence

MGRTQSSPAA PGGMKSPDQ PVKHLFTTGV VYDTFMLKHQ
 CMCGNTHVHP EHAGRIQSIW SRLQETGLLS KCERIRGRKA
 TLDEIQTVHS EYHTLLYGTS PLNRQKLDK KLLGPISQKM
 YAVLPCGGIG VSDTVWNEM HSSSAVRMAV GCLLELAFKV
 AAGELKNGFA IIRPPGHAE ESTAMGFCFF NSVAITAKLL
 QQKLNVGKVL IVDWDIHHGN GTQQAFYNDP SVLYISLHRY
 DNGNFFPGSG APEEVGGGPG VGYNVNVAVT GGVDPIGVDV
 EYLTAFRTVV MPIAHEFSPD VVLVSAGFDA VEGHLSPLGG
 YSVTARCFGH LTRQLMTLAG GRVVLALEGG HDLTAICDAS
 EACVSALLSV ELQPLDEAVL QQKPNINAVA TLEKVIEIQS
 KHWSCVQKFA AGLGRSLREA QAGETEEAET VSAMALLSVG
 AEQAQAAAAR EHSPRPAEEP MEQEPALHHH HHHHHHHH

Endotoxin < 1 EU/ μ g, determined by LAL method.

Purity > 90% by SDS-PAGE analysis.

Storage

HDAC5 remains stable up to 6 months at -80 centigrade from date of receipt. For maximum recovery of product, centrifuge original vial prior to removing the cap. Aliquot to avoid repeated thawing and freezing.

GENE INFORMATION

Gene Name HDAC5 histone deacetylase 5 [Homo sapiens]

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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_005474
Protein Refseq	NP_005465
MIM	605315
UniProt ID	Q9UQL6

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