

Active Recombinant Human Histone Deacetylase 6, His-tagged

Cat. No. HDAC6-401H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman HDAC6 was expressed in insect cells with Histag. The molecular weight of the protein is 131 kDa.
Species	Human
Source	Insect Cells
Description	HDAC6 is a class II HDAC, a group defined by its member's homology to the yeast HDAC HDA1. It is unique among human HDACs in that it contains two full deacetylase domains. A tubulin deacetylase, HDAC6 may act to promote autophagic clearing of huntingtin aggregates and retard HIV1 infection, but also to promote invasive motility in tumor cells.
Supplied as	XX µg/µl in 50 mM Tris, pH 8.0, 138 mM NaCl and 10% glycerol.
Purity	> 90% by SDS-PAGE.
Molecular Weight	131 kDa (1215 aa)
Activity	> 2 U/µg. One U = 1 pmol/min at 37°C, 100 µM. Active with various fluorogenic peptide substrates, including Fluor de Lys TM substrate and Fluor de Lys TM -SIRT1.
Application	Study HDAC6 kinetics and inhibitor sensitivity.
Long Term Storage	-80°C.

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Storage

-70°C. The enzyme is stable on ice for the time typically required to set up an experiment (30-60 min.), but may lose activity with prolonged storage on ice. It is recommended that thawing and dilution of the enzyme be done within as short a time as possible before start of the assay. The remaining, unused, undiluted enzyme should be refrozen quickly by, for example, snap freezing in a dry/ice ethanol bath or liquid nitrogen. Freezing and storage of diluted enzyme is not recommended.

GENE INFORMATION

Gene Name HDAC6 histone deacetylase 6 [Homo sapiens]

Official Symbol HDAC6

Synonyms HDAC6; histone deacetylase 6; HD6; JM21; FLJ16239; EC 3.5.1.98; KIAA0901; OTTHUMP00000032398; OTTHUMP00000197663

Gene ID 10013

mRNA Refseq NM_006044

Protein Refseq NP_006035

MIM 300272

UniProt ID Q9UBN7

Chromosome Location Xp11.23

Pathway Cell cycle; NOTCH1 Intracellular Domain Regulates Transcription; Signal Transduction; Signaling by NOTCH; Signaling by NOTCH1; Signaling events mediated

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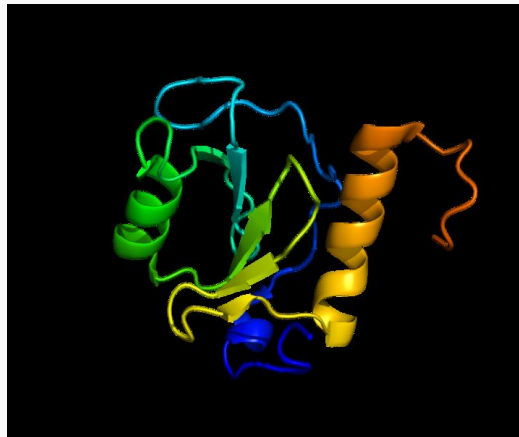
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by HDAC Class I; Signaling events mediated by HDAC Class II; TNF-alpha/NF-kB Signaling Pathway

Function

Hsp90 protein binding; NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); actin binding; alpha-tubulin binding; beta-catenin binding; beta-tubulin binding; dynein complex binding; enzyme binding; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; metal ion binding

Rendering based on
PDB 3C5K.



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