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	HDAC6is a class II HDAC, a group defined by its member's homology to the yeastHDAC HDA1. It is unique among human HDACs in that it contains two fulldeacetylase domains. A tubulin deacetylase, HDAC6 may act to promoteautophagic clearing of huntingtin aggregates and retard HIV1 infection, butalso 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% bySDS-PAGE.
Molecular Weight	131kDa (1215 aa)
Activity	> 2 U/μg.One U=1 pmol/min at 37°C, 100 μM. Active with various fluorogenic peptidesubstrates, including Fluor de Lys™ substrate and Fluor de Lys™-SIRT1.
Application	Study HDAC6kinetics and inhibitor sensitivity.
Long Term Storage	-80°C.

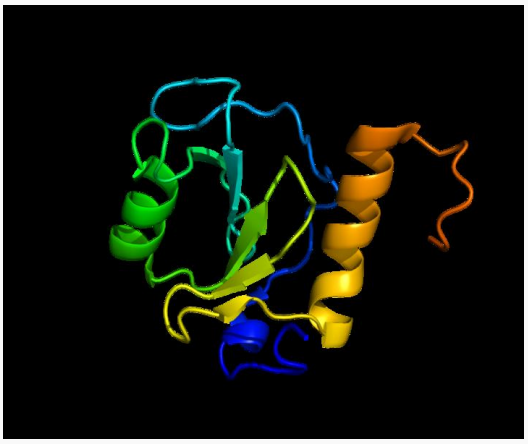
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Storage	-70°C.The enzyme is stable on ice for the time typically required to set up anexperiment (30-60 min.), but may lose activity with prolonged storage on ice.It is recommended that thawing and dilution of the enzyme be done within asshort a time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

GENE INFORMATION

Gene Name	HDAC6 histonedeacetylase 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 DomainRegulates Transcription; Signal Transduction; Signaling by NOTCH; Signalingby NOTCH1; Signaling events mediated

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	by HDAC Class I; Signaling eventsmediated by HDAC Class II; TNF-alpha/NF-kB Signaling Pathway
Function	Hsp90 protein binding; NAD-dependenthistone deacetylase activity (H3-K14 specific); NAD-dependent histonedeacetylase activity (H3-K9 specific); NAD-dependent histone deacetylaseactivity (H4-K16 specific); actin binding; alpha-tubulin binding;beta-catenin binding; beta-tubulin binding; dynein complex binding; enzymebinding; histone deacetylase activity; histone deacetylase activity (H3-K16specific); histone deacetylase binding; hydrolase activity; metal ion binding
Rendering based on PDB 3C5K.	

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