Recombinant Human Histone Deacetylase 6, FLAG-tagged

Cat. No. HDAC6-398H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman HDAC6 was expressed in E. coli as the full length protein with anN-terminal FLAG tag. The molecular weight of the protein is 132 kDa.
Species	Human
Source	E.coli
Description	HDAC6is a histone deacetylase containig two HDAC catalytic domains. HDAC6 is anenzyme that in humans is encoded by the HDAC6 gene. Histones play a critical rolein transcriptional regulation, cell cycle progression, and developmentalevents. It contains an internal duplication of two catalytic domains whichappear to function independently of each other.
Reconstitution	20 mM Tris-HCl (pH7.3), 300 mM KCl, 0.2 mM EDTA and 20%glycerol.
Contents	10g recombinant HDAC6 protein, 0.5 g/l.
Dilution of Protein	RecombinantHDAC6 is supplied in solution and should be kept as a solution in ordertomaintain full activity.
Application	RecombinantHDAC6 is suitable for use in histone deacetylase assays. Arecommendedstarting point for the HDAC assay is 20-100 ng of recombinant proteinperreaction.
Storage	Recombinantproteins in solution are temperature sensitive and should be stored at-

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	80°Cto prevent degradation. Avoid repeated freeze/thaw cycles and keep on icewhennot in storage.
Full Length	Full L.

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

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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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