

Active Recombinant Human HDAC6, GST-tagged

Cat. No. HDAC6-405H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human HDAC6, GenBank Accession No. BC069243, full length with N-terminal GST-tag, MW= 159 kDa, expressed in baculovirus expression system.
Species	Human
Source	Sf9 Cells
Description	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains which appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription.
Form	50 mM Tris-HCl, pH 7.5, 500 mM NaCl, 50 mM KCl, 2 mM EDTA, 10% glycerol, and 2 mM DTT
Bio-activity	≥560 pmol/min/μg
Molecular Mass	159 kDa
Purity	≥85%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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Storage	>6 months at -80°C.
Warning	Avoid freeze/thaw cycles.
Full Length	Full L.
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; protein phosphatase 1, regulatory subunit 90; KIAA0901; OTTHUMP00000032398; NP_006035.2; 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 by HDAC Class I; Signaling events mediated by HDAC Class II;

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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

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