

Active Recombinant Human HDAC6, GST-tagged

Cat. No. HDAC6-1359H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HDAC6 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	<p>HDAC6 or Histone deacetylase 6 belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events.</p> <p>The protein encoded by this gene belongs to class II of the histone deacetylase family that regulates important biologic processes beyond histone metabolism and gene transcription. HDAC6 is a central component of the stress response that regulates SG formation and potentially contributes to control of RNA metabolism and translation.</p>
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	5800 nmol/min/mg
Molecular Mass	~ 180 kDa
Purity	>80%

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Applications	HDAC Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	HDAC6 histone deacetylase 6 [Homo sapiens]
Official Symbol	HDAC6
Synonyms	HDAC6; histone deacetylase 6; FLJ16239; HD6; JM21; KIAA0901;
Gene ID	10013
mRNA Refseq	NM_006044
Protein Refseq	NP_006035
MIM	300272
UniProt ID	Q9UBN7
Chromosome Location	Xp11.23
Pathway	Cell cycle, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by

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NOTCH1, organism-specific biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class II, organism-specific biosystem;

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; microtubule binding; microtubule binding; polyubiquitin binding; protein binding; tau protein binding; tubulin deacetylase activity; tubulin deacetylase activity; zinc ion binding;

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