

Active Recombinant Human HDAC4, GST-tagged

Cat. No. HDAC4-1357H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC4 (612-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	612 aa-end
Description	HDAC4 or Histone Deacetylase 4 belongs to class II of the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex that represses transcription when tethered to a promoter. HDAC4 does not bind DNA directly, but through transcription factors MEF2C and MEF2D. Binding of the N terminus of HDAC4 to MEF2C represses MEF2C transcription activity. The catalytic domain of HDAC4 interacts with HDAC3 via the transcriptional corepressor NCOR2. Suppression of HDAC4 binding to NCOR2 and to HDAC3 results in loss of enzymatic activity associated with HDAC4.
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	60 RLU/min/ng
Molecular Mass	~77 kDa

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Purity	>95%
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 $\mu\text{g}/\mu$
GENE INFORMATION	
Gene Name	HDAC4 histone deacetylase 4 [Homo sapiens]
Official Symbol	HDAC4
Synonyms	HDAC4; histone deacetylase 4; HA6116; HD4; HDAC 4; HDAC A; HDACA; KIAA0288; histone deacetylase A; AHO3; BDMR; HDAC-4; HDAC-A;
Gene ID	9759
mRNA Refseq	NM_006037
Protein Refseq	NP_006028
MIM	605314
UniProt ID	P56524
Chromosome Location	2q37.3
Pathway	Cell cycle, organism-specific biosystem; Endochondral Ossification, organism-specific

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biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH1, organism-specific biosystem;

Function

NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); activating transcription factor binding; histone deacetylase activity; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; potassium ion binding; protein binding; protein deacetylase activity; protein kinase binding; repressing transcription factor binding; contributes_to sequence-specific DNA binding; transcription factor binding; contributes_to transcription regulatory region DNA binding; zinc ion binding;

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