

Recombinant Human HDAC4

Cat. No. HDAC4-28265TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human HDAC4 with N-terminal proprietary tag, 77kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	473 amino acids
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 possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3.
Molecular Weight	77.000kDa inclusive of tags
Tissue specificity	Ubiquitous.
Biological activity	The Specific activity of HDAC4-28265TH was determined to be 60 RLU/min/ng.
Form	Liquid
Purity	>95% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the histone deacetylase family. HD type 2 subfamily.
GENE INFORMATION	
Gene Name	HDAC4 histone deacetylase 4 [Homo sapiens]
Official Symbol	HDAC4
Synonyms	HDAC4; histone deacetylase 4; HA61116; HD4; HDAC 4; HDAC A; HDACA; KIAA0288;
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; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class II, 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;

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