

Recombinant Human HDAC4, His-tagged

Cat. No. HDAC4-28266TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 556-1084 of Human HDAC4 with a N terminal His tag; MWt 85 kDa:
Species	Human
Source	E.coli
ProteinLength	556-1084 a.a.
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.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:reconstitution with 125 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	VQVKQEPIESDEEEAEPPREVEPGQRQPSEQELLFRQQAL LLEQQRIHQLRNYQAS MEAAGIPVSFGGHRPLSRAQSS PASATFPVSVQEPPTKPRFTTGLVYDTLMLKHQC TCGS SSSHPEHAGRIQSIWSRLQETGLRGKCECIRGRKATLEEL QTVHSEAHTLLY GTNPLNRQKLD SKLLGSLASVFVRL PCGGVGVDSDTIWNEVHSAGAARLAVGCV VELVFKVAT GELKNGFAVVRPPGHHAEEESTPMGFCYFNSVAVAAKLL QQRLSVSKI LIVDWDVHHGNGTQQAFYSDPSVLYMSLHRY DDGNFFPGSGAPDEVGTGPGVGF NVNMAFTGGLDPPMG DAEYLAAFRTVVMPIASEFAPDVVLVSSGFDAVEGHPT PL GGYNLSARCFGYLTKQLMGLAGGRIVLALEGGHDLTAICDASEACVSALLGNELDPL PEKVLQQRPNANAVRSMEK VMEIHSKYWRCLQRTTSTAGRSLIEAQTCENEEAETV T AMASLSVGVKPAEKRPDDEEPMEEEPPL
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; HA6116; HD4; HDAC 4; HDAC A; HDACA; KIAA0288;
Gene ID	9759
mRNA Refseq	NM_006037
Protein Refseq	NP_006028

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MIM	605314
Uniprot ID	P56524
Chromosome Location	2q37.3
Pathway	Cell cycle, organism-specific biosystem; Endochondral Ossification, organism-specific 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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