



HDAC4 blocking peptide (DAG-P1460)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2008]
Specificity	Ubiquitous.
Purity	> 90 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the histone deacetylase family. HD type 2 subfamily.
Format	Liquid
Buffer	Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2
Preservative	0.02% Thimerosal
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2

GENE INFORMATION

Gene Name [HDAC4 histone deacetylase 4 \[Homo sapiens \(human\) \]](#)

Official Symbol	HDAC4
Synonyms	HDAC4; histone deacetylase 4; HD4; AHO3; BDMR; HDACA; HA6116; HDAC-4; HDAC-A; histone deacetylase A;
Entrez Gene ID	9759
mRNA Refseq	NM_006037.3
Protein Refseq	NP_006028.2
UniProt ID	P56524
Chromosome Location	2q37.3
Pathway	Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Cell cycle, organism-specific biosystem; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants, organism-specific biosystem; Constitutive Signaling by NOTCH1 PEST Domain Mutants, organism-specific biosystem; Disease, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Epstein-Barr virus infection, organism-specific biosystem; Epstein-Barr virus infection, conserved biosystem; FBXW7 Mutant
Function	NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K18 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); activati