

Recombinant Human HDAC9, His-tagged

Cat. No. HDAC9-28444TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 604-1066 of Human HDAC 9 with C-terminal His tag expressed in a Baculovirus infected Sf9 cell expression system, 50.7 kDa.
Species	Human
ProteinLength	604-1066 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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined.
Conjugation	HIS
Tissue specificity	Broadly expressed, with highest levels in brain, heart, muscle and testis. Isoform 3 is present in human bladder carcinoma cells (at protein level).
Biological activity	Specific Activity: >1000 U/ug. One U =1pmol/min. Assay condition: 25 mM Tris/Cl,

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pH8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl₂, and 0.1 mg/ml BSA, 20 uM BPS HDAC substrate, and 0.2 ng/ul HDAC9. Incubation condition: 30 min at 37°C.

Form Liquid

Purity >95% by SDS-PAGE

Storage buffer Preservative: None
Constituents: 50% Glycerol, 0.05% Tween 20, 25mM Tris HCl, 138mM Sodium chloride, pH 8.0

Storage Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

Sequence Similarities Belongs to the histone deacetylase family. HD type 2 subfamily.

GENE INFORMATION

Gene Name HDAC9 histone deacetylase 9 [Homo sapiens]

Official Symbol HDAC9

Synonyms HDAC9; histone deacetylase 9; HD7; HDAC; HDAC7B; KIAA0744; MITR;

Gene ID 9734

mRNA Refseq NM_001204144

Protein Refseq NP_001191073

MIM 606543

Uniprot ID Q9UKV0

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Chromosome Location	7p21.1
Pathway	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); histone deacetylase activity; NOT histone deacetylase activity;

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