

Active Recombinant Human Histone Deacetylase 9, GST-tagged

Cat. No. HDAC9-400H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cataytic Region Human HDAC9 – Class IIa, 78kD with GST tag.
Species	Human
Source	Insect Cells
Description	Histone deacetylase 9, also known as HDAC9, is a human gene. 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.
Purity	Purified, active enzyme.
Purification Procedure	Glutathione column
Activity	1000 units per vial.1 unit is defined as the amount of enzyme that will convert

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1picomole per minute per ug of protein at pH8 at 30°C.

Stability/Shelf-life >6 months from date of shipment

Buffer Composition 25mM Tris pH8, 120mM NaCl, 0.05% Tween-20 & 40% Glycerol

Storage -80°C

GENE INFORMATION

Gene Name HDAC9 histone deacetylase 9 [Homo sapiens]

Synonyms HDAC9; DKFZp779K1053; HD7; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; KIAA0744; MITR; histone deacetylase 9; histone deacetylase 7; histone deacetylase 7B; histone deacetylase 4/5-related protein; MEF-2 interacting transcription repressor (MITR) protein; EC 3.5.1.98; Histone deacetylase-related protein; MEF2-interacting transcription repressor MITR.

Gene ID 9734

mRNA Refseq NM_014707

Protein Refseq NP_055522

MIM 606543

UniProt ID Q9UKV0

Chromosome Location 7p21.1

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Pathway	Gene Expression
Function	histone deacetylase activity; hydrolase activity; specific transcriptional repressor activity; transcription factor binding

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