

# Active Recombinant Human Histone Deacetylase 9, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Cataytic Region Human HDAC9 – Class IIa, 78kD with GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>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.</p>
<b>Purity</b>	Purified, active enzyme.
<b>Purification Procedure</b>	Glutathione column
<b>Activity</b>	1000 units per vial.1 unit is defined as the amount of enzyme that will convert

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1 picomole 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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