

Recombinant Human HDAC9 Protein, His-tagged

Cat. No. HDAC9-42H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC9 protein with a C-terminal His-tag was expressed in insect cells.
Species	Human
Source	Insect Cells
Description	<p>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>
Molecular Mass	50.7 kDa
Purity	≥75% estimated by SDS-PAGE
Unit Definition	One unit is the amount of enzyme required to release 1 pmol of acetate per minute at 37 centigrade in 25 mM Tris-HCl, pH 8.0, 137 mM sodium chloride, 2.7 mM potassium chloride, 1 mM magnesium chloride, 0.1 mg/mL BSA, and 20

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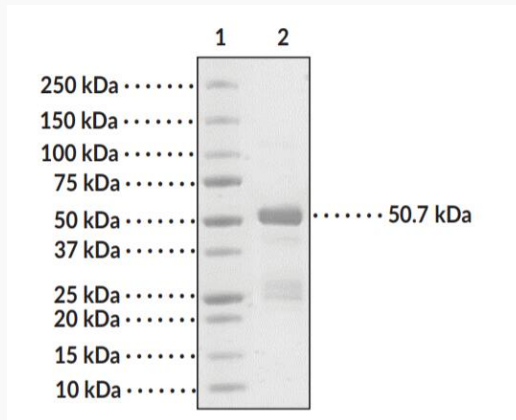
	μM fluorogenic HDAC class 2a substrate.
Stability	≥ 6 months
Storage	Store it at -80 centigrade
Storage Buffer	40 mM Tris-HCl, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride, 20% glycerol, and 200 mM imidazole
GENE INFORMATION	
Gene Name	HDAC9 histone deacetylase 9 [Homo sapiens (human)]
Official Symbol	HDAC9
Synonyms	HDAC9; histone deacetylase 9; HD7; HD9; HD7b; HDAC; HDRP; MITR; HDAC7; HDAC7B; HDAC9B; HDAC9FL; histone deacetylase 9; MEF-2 interacting transcription repressor (MITR) protein; histone deacetylase 4/5-related protein; histone deacetylase 7B
Gene ID	9734
mRNA Refseq	NM_001204144
Protein Refseq	NP_001191073
MIM	606543
UniProt ID	Q9UKV0

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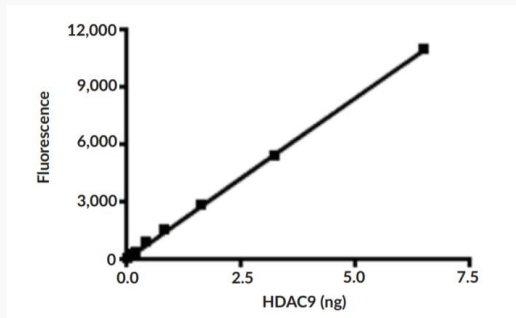
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**SDS-PAGE Analysis
of HDAC9**



Lane 1: MW Markers; Lane 2: HDAC9 (3.15 µg). Representative gel image shown; actual purity may vary between each batch.

**HDAC9 Deacetylase
Activity**



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