Active Recombinant Mouse HDAC5, GST-tagged

Cat. No. HDAC5-1358M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse HDAC5 (617-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	617 aa-end
Description	HDAC5 or Histone deacetylase 5 belongs to the class II histone deacetylase/acuc/apha family that possesses histone deacetylase activity and represses transcription when tethered to a promoter. HDAC 5 plays a critical role in transcriptional regulation, cell cycle progression, and developmental events and also acts as a potential therapeutic target for the prevention of atherosclerosis. HDAC5 can co-immunoprecipitates with HDAC3 family members forming multicomplex proteins. HDAC5 can also interact with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. HDAC5 gene is thought to be associated with colon cancer.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	110 RLU/min/ng
Molecular Mass	~80 kDa

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Purity	>90%
Applications	HDAC Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	Hdac5 histone deacetylase 5 [Mus musculus]
Official Symbol	HDAC5
Synonyms	HDAC5; histone deacetylase 5; HD5; histone deacetylase 4; histone deacetylase mHDA1; Hdac4; mHDA1; AI426555; mKIAA0600;
Gene ID	15184
mRNA Refseq	NM_001077696
Protein Refseq	NP_001071164
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; estrogen signalling, organism-specific biosystem;
Function	histone deacetylase activity; hydrolase activity; protein binding; protein kinase C binding; repressing transcription factor binding; transcription corepressor activity; transcription corepressor activity; transcription factor binding;

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