Recombinant Full Length Mouse HDAC1 Protein, C-Flag,C-His-tagged

Cat. No. HDAC1-13MFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Mouse HDAC1 Protein, fused to Flag and His-tag at C-terminus, was expressed in Sf9 insect cells.
Species	Mouse
Source	Insect cells
ProteinLength	1-482 aa
Description	Enables several functions, including E-box binding activity; Krueppel-associated box domain binding activity; and promoter-specific chromatin binding activity. Involved in several processes, including animal organ development; histone deacetylation; and regulation of gene expression. Acts upstream of or within several processes, including negative regulation of signal transduction; negative regulation of transcription by RNA polymerase II; and nervous system development. Located in heterochromatin; neuronal cell body; and nucleus. Part of NuRD complex and transcription repressor complex. Is expressed in several structures, including brain; early conceptus; embryo mesenchyme; genitourinary system; and sensory organ. Orthologous to human HDAC1 (histone deacetylase 1).
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween20, 20% glycerol, 100ug/ml flag peptide.
Bio-activity	≥460

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	pmol/min/μg.
Molecular Mass	57 kDa
Purity	≥50%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl2, and 0.1 mg/ml BSA, 20 μM BPS HDAC substrate 3, and Mouse HDAC1 (0.3-20 ng). Incubation condition: 30 min at 37°C followed by developing for 15 min at room temperature.
Use/Stability	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
References	1. Rikimaru, T. et al., Oncology 72(1-2), 69-74 (2007). 2. Ishihama, K. et al., J Clin Pathol 60(11), 1205-10 (2007).

GENE INFORMATION

Gene Name	Hdac1 histone deacetylase 1 [Mus musculus (house mouse)]
Official Symbol	HDAC1
Synonyms	HDAC1; HD1; RPD3; MommeD5; Hdac1-ps; histone deacetylase 1; HDAC-1; HDAC1 Tag
Gene ID	433759

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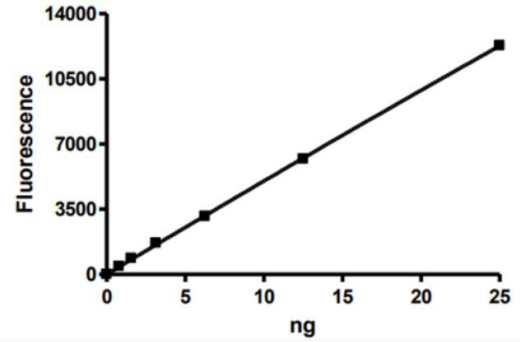
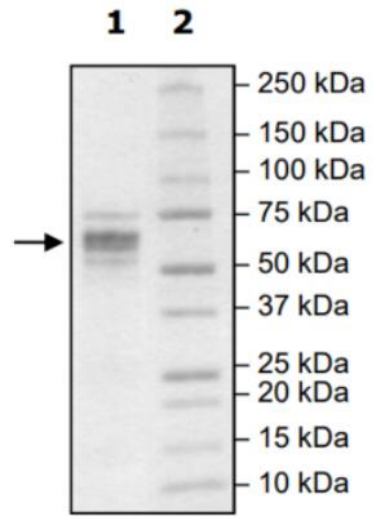
mRNA Refseq	NM_008228.3
Protein Refseq	NP_032254.1
UniProt ID	O09106
Specific Activity	
SDS-PAGE	 4-20% SDS-PAGE Coomassie Staining.

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