

Recombinant Mouse Hdac7 Protein, Myc/DDK-tagged

Cat. No. Hdac7-3370M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length histone deacetylase 7 (Hdac7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Positively regulates the transcriptional repressor activity of FOXP3. Serves as a corepressor of RARA, causing its deacetylation and inhibition of RARE DNA element binding. In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response.
Molecular Mass	101.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Hdac7 histone deacetylase 7 [Mus musculus (house mouse)]
Official Symbol	Hdac7
Synonyms	HDAC7; histone deacetylase 7; histone deacetylase 7A; HD7; HD7a; Hdac7a; mFLJ00062; 5830434K02Rik
Gene ID	56233
mRNA Refseq	NM_019572
Protein Refseq	NP_062518
UniProt ID	Q8C2B3