

Recombinant Human Distone Deacetylase 7, GST-tagged

Cat. No. HDAC7-1594H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC7 (501-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	501-end a.a.
Description	HDAC7 or Histone deacetylase 7 belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. The protein encoded by HDAC7 gene has sequence homology to members of the histone deacetylase family whose protein promotes repression mediated via the transcriptional co-repressor SMRT. HDAC7 interacts with β -catenin keeping endothelial cells in a low proliferation stage.
Applications	HDAC Assay; Western Blot
Molecular Weight	80 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, PH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Purity	>90%
Concentration	0.1 ug/ul
Specific Activity	80 RLU/min/ng
Sequences	501-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	B Cell Receptor Signaling Pathway; Cell cycle; HIF-1-alpha transcription factor network; MicroRNAs in cardiomyocyte hypertrophy; Regulation of Androgen receptor activity; Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class II; T Cell Receptor Signaling Pathway

GENE INFORMATION

Gene Name	HDAC7 histone deacetylase 7 [Homo sapiens]
Official Symbol	HDAC7
Synonyms	HDAC7; histone deacetylase 7; HD7A; HDAC7A; FLJ99588; DKFZp586J0917; histone deacetylase 7; HD7; OTTHUMP00000202813; OTTHUMP00000202814; OTTHUMP00000202823; histone deacetylase 7A
Gene ID	51564
mRNA Refseq	NM_015401

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Protein Refseq	NP_056216
MIM	606542
UniProt ID	Q8WUI4
Chromosome Location	12q13
Function	NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity (H3-K16 specific); hydrolase activity; transcription factor binding; histone deacetylase binding; protein binding; protein deacetylase activity; protein kinase binding; 14-3-3 protein binding; repressing transcription factor binding
PDBrendering based on 2nvr.	