Recombinant Human Distone Deacetylase 4, GST-tagged

Cat. No. HDAC4-1592H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC4 (612-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	612-end a.a.
Description	HDAC4 or Histone Deacetylase 4 belongs to class II of the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex that represses transcription when tethered to a promoter. HDAC4 does not bind DNA directly, but through transcription factors MEF2C and MEF2D. Binding of the N terminus of HDAC4 to MEF2C represses MEF2C transcription activity.
Applications	HDAC Assay; Western Blot
Molecular Weight	77 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.
Purity	>95%

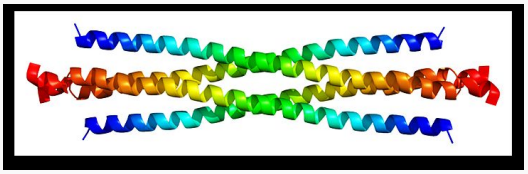
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	0.1 ug/ul
Specific Activity	60 RLU/min/ng
Sequences	612-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	Cell cycle; Endochondral Ossification; MicroRNAs in cardiomyocyte hypertrophy; Signaling events mediated by HDAC Class I; Signaling events mediated by HDAC Class II; Signaling events mediated by HDAC Class III; Sumoylation by RanBP2 regulates transcriptional repression

GENE INFORMATION

Gene Name	HDAC4 histone deacetylase 4 [Homo sapiens]
Official Symbol	HDAC4
Synonyms	HDAC4; histone deacetylase 4; HD4; AHO3; BDMR; HDACA; HA6116; HDAC-4; HDAC-A; KIAA0288; histone deacetylase 4; OTTHUMP00000164483; histone deacetylase A
Gene ID	9759
mRNA Refseq	NM_006037
Protein Refseq	NP_006028

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MIM	605314
UniProt ID	P56524
Chromosome Location	2q37
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; histone deacetylase activity (H3-K16 specific); hydrolase activity; transcription factor binding; histone deacetylase binding; protein binding; protein deacetylase activity; repressing transcription factor binding; contributes_to sequence-specific DNA binding; contributes_to transcription regulatory region DNA binding; zinc ion binding
PDBrendering based on 2h8n.	

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