Active Recombinant Human HDAC10, GST-tagged

Cat. No. HDAC10-1354H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDAC10 (1-482) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-482 aa
Description	HDAC10 belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. HDAC10 belongs to class II of the histone deacetylase family that catalyzes the deacetylation of lysine residues in the N-terminal tail of histones and represses transcription in large multiprotein complexes with transcriptional co-repressors. Therefore, HDAC10 plays a role in transcriptional repression. HDAC10 interacts with HDAC3 in co-transfected embryonic kidney cells. Deletion analysis indicates that both the N- and C-terminal domains of HDAC10 bound HDAC3 independently.
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	120 RLU/min/ng
Molecular Mass	~77 kDa

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

Purity	>80%
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	HDAC10 histone deacetylase 10 [Homo sapiens]
Official Symbol	HDAC10
Synonyms	HDAC10; histone deacetylase 10; DKFZP761B039; HD10; MGC149722; DKFZp761B039;
Gene ID	83933
mRNA Refseq	NM_001159286
Protein Refseq	NP_001152758
MIM	608544
UniProt ID	Q969S8
Chromosome Location	22q13.31
Pathway	NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem;

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	Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH1, organism-specific biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class II, organism-specific biosystem;
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); enzyme binding; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; hydrolase activity; protein binding; protein deacetylase activity;

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