

# Recombinant Full Length Human HDAC1 Protein, C-Flag-tagged

**Cat. No.** HDAC1-1190HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human HDAC1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	54.9 kDa
<b>AA Sequence</b>	MAQTQGTRRKVCYYYDGDVGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR PHKANAEEMTKYHSD DYIKFLRSIRPDNMSEYSKQMQRFNVEDCPVFDGLFEFC QLSTGGSVASAVKLNKQQTDIAVNWAGGLH HAKKSEASGFCYVNDIVLAILELLKYH QRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGTGD LRDIGAGKGGKYYAV NYPLRDGIDDESIEAIFKPVMSKVMEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKG

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HAKCVEFVKSFNLPMLMLGGGGYTIRNVARCWYETAVALDTEIPNELPYNDYFEYF  
 GPDFKLHISPSNM TNQNTNEYLEKIKQRLFENLRMLPHAPGVQMQAIPEDAIPESG  
 DEDEDDPDKRISICSSDKRIACEEEF  
 SDSEEEGEGGRKNSSNFKKAKRVKTEDEKEKDPEEKKEVTEEEKTKEEKPEAKGVK  
 EEVKLATRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Adult stem cells, Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors
<b>Protein Pathways</b>	Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	HDAC1 histone deacetylase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	HDAC1

<b>Synonyms</b>	HD1; RPD3; KDAC1; GON-10; RPD3L1
<b>Gene ID</b>	3065
<b>mRNA Refseq</b>	NM_004964.3
<b>Protein Refseq</b>	NP_004955.2
<b>MIM</b>	601241
<b>UniProt ID</b>	Q13547



Coomassie blue staining of purified HDAC1 protein.

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