

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human HDAC1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.9 kDa
AA Sequence	MAQTQGTRRKVCYYYDGDVGNYYYGQGHMPKPHRIRMTHNLLLNYGLYRKMEIYR PHKANAEEMTKYHSD DYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFC QLSTGGSVASAVKLNKQQTDIAVNWAGGLH HAKKSEASGFCYVNDIVLAILELLKYH QRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGTGD LRDIGAGKGKYYAV NYPLRDGIDDESIEAIFKPVMSKVMEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKG

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HAKCVEFVKSFNLPMLMLGGGGYTIRNVARCWYETAVALDTEIPNELPYNDYFEYF
 GPDFKLHISPSNM TNQNTNEYLEKIKQRLFENLRMLPHAPGVQMQAIPEDAIPEESG
 DEDEDDPKRISICSSDKRIACEEEF
 SDSEEEGEGGRKNSSNFKKAKRVKTEDEKEKDPEEKKEVTEEEKTKEEKPEAKGVK
 EEVKLATRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors
Protein Pathways	Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer
Full Length	Full L.

GENE INFORMATION

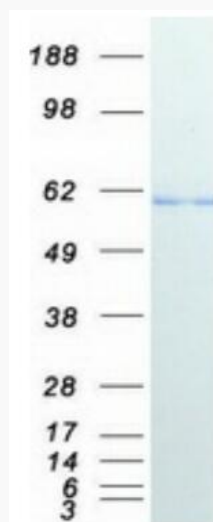
Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens (human)]
Official Symbol	HDAC1

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



Coomassie blue staining of purified HDAC1 protein.