

Active Recombinant Full Length Human HDAC4 Protein, C-Flag-tagged

Cat. No. HDAC4-256HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HDAC4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme substrate
Molecular Mass	118.9 kDa
AA Sequence	MSSQSHPDGLSGRDQPVLLNPARVNHMPSTVDVATALPLQVAPSAVPMDLRLDH QFSLPVAEPALREQQ LQQELLALKKQKQIQRQILIAEFQRQHEQLSRQHEAQLHEHI KQQQEMLAMKHQQELLEHQRKLERHRQE QELEKQHQREKLQQLKNKEKGKESAV

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ASTEVKMKLQEFVLNKKKALAHRLNLNHCISSDPRYWGKTQHSS LDQSSPPQSGV
 STSYNHPVLGMYDAKDDFPLRKTASEP NLKLSRLKQKVAERRSSPLLRRKDGPVV
 TAL KKRPLDVTDSACSSAPGSGPSSPNNSSGSVSAENGIAPAVPSIPAETSLAHLRV
 AREGSAAPLPLYTSPS LPNITLGLPATGPSAGTAGQQDAERLTLPALQQRLSLFPGT
 HLTPYLSTSPLERDGGAAHSPLLQH MVLL EQPPAQAPLVTGLGALPLHAQSLVGAD
 RVSPSIHKLRQHRPLGRTQSAPLPQNAQALQHLVIQQQHQQFL EKHKQQFQQQQL
 QMNKIIPKPSEPARQPESHPEETEEELREHQALLDEPYLDRLPGQKEAHAQAGVQV
 KQ EPIESDEEEAEPPREVEPGQRQPSEQELLFRQQALLLEQQRIHQLRNYQASMEA
 AGIPVSFGGHRPLSRA QSSPASATFPVSVQEPPTKPRFTTGLVYDTLMLKHQCTCG
 SSSSHPEHAGRIQSIWSRLQETGLRGKCEC IRGRKATLEELQTVHSEAHTLLYGTNP
 LNRQKLD SKKLLGSLASVFVRLPCGGVGVDSDTIWNEVHSAGA ARLAVGCVVELVF
 KVATGELKNGFAVVRPPGHHAEESTPMGFCYFNSVAVAAKLLQQR LSVSKILIVDWD
 VHHGNGTQQAFYSDPSVLYMSLHRYDDGNFFPGSGAPDEVGTGPGVGFNVNMAF
 TGGLDPPMGDAEYLAA FRTVVMPIASEFAPDVVLVSSGFDAVEGHPTPLGGYNLSA
 RCFGYLTQQLMGLAGGRIVLALEGGHDLTA ICDASEACVSALLGNELDPLPEKVLQQ
 RPNANAVRSMEKVM EIH SKYWRLQRTTSTAGRSLIEAQTCE N
 EEAETVTAMASLSVG VKPAEKR PDEEPMEEEP LTRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

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.

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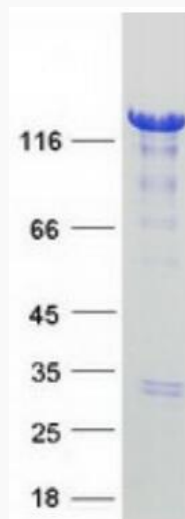
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Protein Families	Druggable Genome, Transcription Factors
Full Length	Full L.
GENE INFORMATION	
Gene Name	HDAC4 histone deacetylase 4 [Homo sapiens (human)]
Official Symbol	HDAC4
Synonyms	HD4; AHO3; BDMR; HDACA; HA6116; HDAC-4; HDAC-A; NEDCHF; NEDCHID
Gene ID	9759
mRNA Refseq	NM_006037.4
Protein Refseq	NP_006028.2
MIM	605314
UniProt ID	P56524

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Coomassie blue staining of purified HDAC4 protein.

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