

HDAC5 recombinant protein

Recombinant HDAC5 protein

CATALOG # AAA59739	HOST Baculovirus
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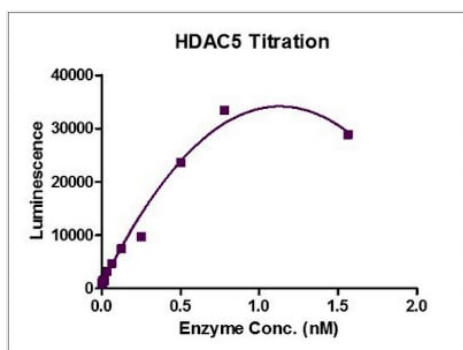
PRODUCT SYNONYMS

HDAC5; Recombinant HDAC5 protein; HDAC-5; Histone Deacetylase 5; HD5; HDAC5 recombinant protein

PRODUCT SPECIFICATIONS

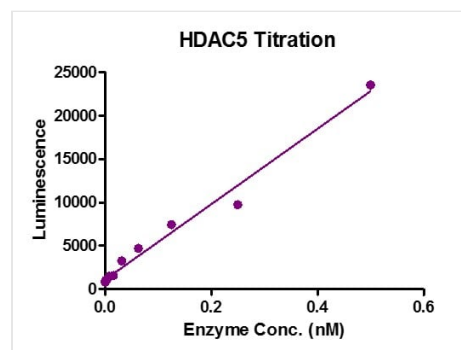
Host	Baculovirus
Purity/Purification	The purity of HDAC5 protein is >66% by SDS-PAGE.
Form/Format	Recombinant full length HDAC5 protein is supplied in 25mM HEPES pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, and 0.2mM TCEP.
Concentration	0.15ug/ul (varies by lot)
Source	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on Dry Ice. Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



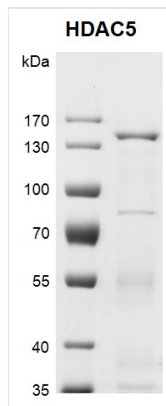
Application Data

HDAC-Glo™ Class IIa Assay for HDAC5 activity Assay was performed using HDAC-Glo™ Class IIa Assay from Promega. 3.5 uM substrate was incubated with HDAC5 proteins and 1/20000 developer reagent at room temperature, then luminescence was detected after incubation for 20 min.



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SDS-PAGE

Recombinant HDAC5 protein gel. HDAC5 protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue.

ADDITIONAL INFORMATION

Related Product Information for HDAC5 recombinant protein	Description: Recombinant human HDAC5 was expressed in a baculovirus expression system as the full-length protein (accession number NP_001015053.1) with an N-terminal DYKDDDDK-Tag. The molecular weight of the protein is 124 kDa. The purity of HDAC5 protein is >66% by SDS-PAGE. Background: HDAC5 (Histone Deacetylase 5) is a member of the class IIa mammalian histone deacetylases (HDACs) involved in regulating chromatin structure during transcription. These enzymes catalyze the removal of acetyl groups from lysine residues of histones and other cellular proteins. Lysine N-epsilon-acetylation is a dynamic, reversible and tightly regulated protein and histone modification that plays a major role in regulation of gene expression in various cellular functions. It consists of the transfer of an acetyl moiety from an acetyl coenzyme A to the epsilon-amino group of a lysine residue. In vivo, acetylation is controlled by the antagonistic activities of histone acetyltransferases (HATs) and histone deacetylases (HDACs). The HDACs are grouped into four classes, on the basis of similarity to yeast counterparts: HDAC class I (HDAC1, HDAC2, HDAC3 and HDAC8), class II (HDAC4, HDAC5, HDAC6, HDAC7, 9 and 10), class III (SIRT1-7) and class IV (HDAC11). Like HDAC4, HDAC5 shuttles between the nucleus and cytoplasm. In muscle cells, this protein shuttles into the cytoplasm during myocyte differentiation. HDAC5 interacts with many different transcription factors including HDAC3, and may form multi-complex proteins.
Product Categories/Family for HDAC5 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	62750349
NCBI GeneID	10014
NCBI Accession #	NP_001015053.1
NCBI GenBank Nucleotide #	NM_001015053.1
UniProt Accession #	Q9UQL6 ; O60340 ; O60528 ; Q96DY4 ; C9JFV9
NCBI Official Full Name	histone deacetylase 5 isoform 3
NCBI Official Synonym Full Names	histone deacetylase 5
NCBI Official Symbol	HDAC5
NCBI Official Synonym Symbols	HD5; NY-CO-9
NCBI Protein Information	histone deacetylase 5; antigen NY-CO-9
UniProt Protein Name	Histone deacetylase 5
UniProt Gene Name	HDAC5

UniProt Synonym Gene Names	KIAA0600; HD5
UniProt Entry Name	HDAC5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hdac5-recombinant-protein-baculovirus/59739>