

HDAC4 recombinant protein

Recombinant HDAC4 (627-1084) protein

CATALOG # AAA59735	HOST Baculovirus
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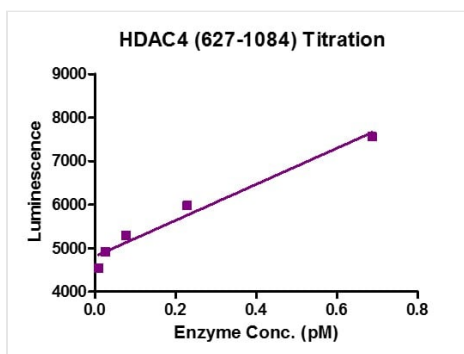
PRODUCT SYNONYMS

HDAC4; Recombinant HDAC4 (627-1084) protein; Histone Deacetylase 4; HD4; Histone Deacetylase A; HDAC-4; HDACA; EC 3.5.1.98; HDAC4 recombinant protein

PRODUCT SPECIFICATIONS

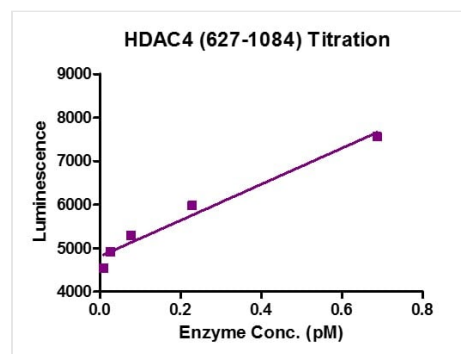
Host	Baculovirus
Form/Format	Recombinant HDAC4 (627-1084) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC4 protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



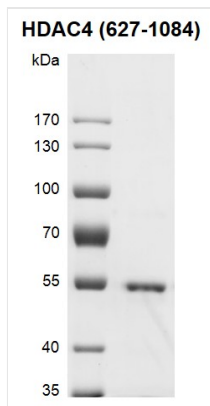
Application Data

HDAC-Glo Class IIa Assay for HDAC4 (627-1084) activity. Assay was performed using HDAC-Glo Class IIa Assay from Promega. 3.5 μ M substrate was incubated with HDAC4 (627-1084) proteins and 1/20,000 developer reagent at room temperature, then luminescence was detected after incubation for 20 min.



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SDS-PAGE

Recombinant HDAC4 (627-1084) protein gel. HDAC4 (627-1084) protein was run on a 10% SDS- PAGE gel and stained with Coomassie Blue. MW: 52.9 kDa : Purity >90%

ADDITIONAL INFORMATION

Related Product Information for HDAC4 recombinant protein	Short Description: Recombinant HDAC4 (627-1084) protein includes amino acids 627-1084 of human HDAC4 protein (accession number NP_006028.2); it was expressed in Sf9 cells and contains an N-terminal DYKDDDDK-Tag with a molecular weight of 52.9 kDa. The purity of HDAC4 protein is >90% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: HDAC4 (Histone Deacetylase 4) 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). Unlike other deacetylases, HDAC4 shuttles between the nucleus and cytoplasm and serves as a nuclear co-repressor that regulates bone and muscle development. HDAC4 interacts with the myocyte enhancer factors Mef2a, Mef2c and Mef2d. It also forms part of a multi-protein complex with RbAp48 and HDAC3. HDAC4 is ubiquitous.
Product Categories/Family for HDAC4 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	153085395
NCBI GeneID	9759
NCBI Accession #	NP_006028.2
NCBI GenBank Nucleotide #	NM_006037.3
UniProt Accession #	P56524 ; Q9UND6
Molecular Weight	119,040 Da
NCBI Official Full Name	histone deacetylase 4
NCBI Official Synonym Full Names	histone deacetylase 4
NCBI Official Symbol	HDAC4
NCBI Official Synonym Symbols	HD4; AHO3; BDMR; HDACA; HA6116; HDAC-4; HDAC-A
NCBI Protein Information	histone deacetylase 4; histone deacetylase A

UniProt Protein Name	Histone deacetylase 4
UniProt Gene Name	HDAC4
UniProt Synonym Gene Names	KIAA0288; HD4
UniProt Entry Name	HDAC4_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/hdac4-recombinant-protein-baculovirus/59735>