

HDAC9 recombinant protein

Recombinant HDAC9 (604-1066) protein

CATALOG #
AAA59742

HOST
Baculovirus

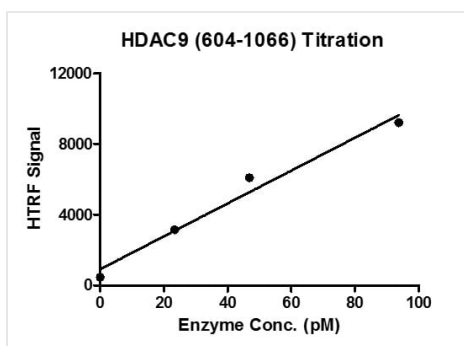
PRODUCT SYNONYMS

HDAC9; Recombinant HDAC9 (604-1066) protein; HDAC-9; Histone Deacetylase 7B; HDAC7B; MITR; HD9; HDAC9 recombinant protein

PRODUCT SPECIFICATIONS

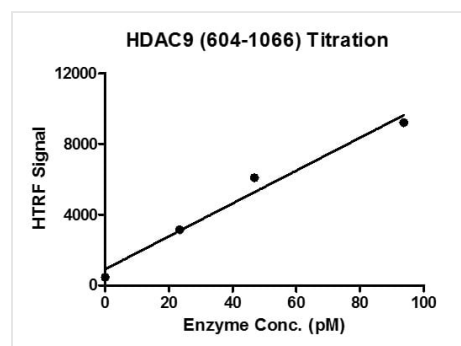
Host	Baculovirus
Purity/Purification	The purity of HDAC9 protein is >80% by SDS-PAGE.
Form/Format	Recombinant HDAC9 (604-1066) protein is supplied at a concentration of 0.25ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC9 (604-1066) protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. HDAC Activity Assay Conditions: Activity of HDAC6 protein was performed using HDAC-Glo Class IIa Assay from Promega. Different concentrations of HDAC Class IIa proteins were incubated with Final Detection Buffer containing 3.5uM substrate and 1/20,000 developer reagent in 20ul reaction system. Luminescence is detected after incubation for 20 min. at room temperature.
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



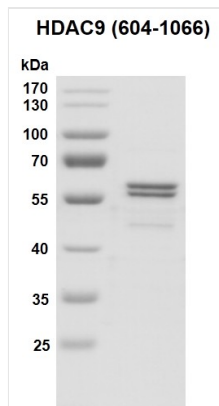
Application Data

HDAC-Glo Class IIa Assay for HDAC9 activity. Assay was performed using HDAC-Glo Class IIa Assay from Promega. 3.5 uM substrate was incubated with HDAC9 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 HDAC9 (604-1066) protein gel. HDAC9 (604-1066) protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 60.3 kDa Purity: > 80%

ADDITIONAL INFORMATION

Related Product Information for HDAC9 recombinant protein	Short Description: Recombinant HDAC9 (604-1066) protein includes amino acids 604-1066 of human HDAC9 protein (accession number NP_848510.1); it was expressed in Sf9 cells and contains an C-terminal DYKDDDDK-Tag with a molecular weight of 60.3 kDa. The purity of HDAC9 protein is >80% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: HDAC9 (Histone Deacetylase 9) 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). In humans, HDAC9 is expressed in a wide variety of tissues. This gene is orthologous to the Xenopus and mouse MITR genes. HDAC9 represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDAC1 and/or HDAC3. HDAC9 may play a role in hematopoiesis. It seems to inhibit skeletal myogenesis and to be involved in heart development. HDAC9 protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter.
Product Categories/Family for HDAC9 recombinant protein	Recombinant Proteins ; Histone Deacetylase (HDAC) ; Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	30795202
NCBI GeneID	9734
NCBI Accession #	NP_848510.1
NCBI GenBank Nucleotide #	NM_178423
UniProt Accession #	Q9UKV0 ; O94845 ; O95028 ; Q2M2R6 ; A7E2F3 ; B7Z4I4 ; B7Z917 ; B7Z928 ; B7Z940 ; C9JS87 ; E7EX34 ; F8W9E0
Molecular Weight	57,092 Da
NCBI Official Full Name	histone deacetylase 9 isoform 4
NCBI Official Synonym Full Names	histone deacetylase 9
NCBI Official Symbol	HDAC9
NCBI Official Synonym Symbols	HD7; HD9; HD7b; HDAC; HDRP; MITR; HDAC7; HDAC7B; HDAC9B; HDAC9FL

NCBI Protein Information	histone deacetylase 9
UniProt Protein Name	Histone deacetylase 9
UniProt Gene Name	HDAC9
UniProt Synonym Gene Names	HDAC7; HDAC7B; HDRP; KIAA0744; MITR; HD9; HD7; HD7b
UniProt Entry Name	HDAC9_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/hdac9-recombinant-protein-baculovirus/59742>