HDAC8 recombinant protein

Recombinant HDAC8 protein

CATALOG #	HOST
AAA59741	**Baculovirus**

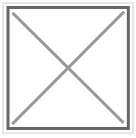
PRODUCT SYNONYMS

HDAC8; Recombinant HDAC8 protein; Histone Deacetylase 8; HDACL1; HD8; CDA07; CDLS5; MRXS6; RPD3; HDAC8 recombinant protein

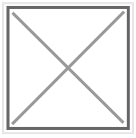
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The purity of HDAC8 protein is >90% by SDS-PAGE.
Form/Format	Recombinant full length HDAC8 protein is supplied in 25mM HEPES pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC8 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
HTRF assay for HDAC8 protein activity.3 uM Histone H3K9ac (1-21aa) peptide was incubated with HDAC8 protein in reaction buffer for 30 min at 37 degree C, Reaction product was detected by Anti-H3K9me0-Eu antibody. HTRF assay was used for activity detection.



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SDS-PAGE
Recombinant HDAC8 protein gel.HDAC8 protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue.

ADDITIONAL INFORMATION

Related Product Information for HDAC8 recombinant protein	Short Description: Recombinant human HDAC8 was expressed in a baculovirus expression system as the full-length protein (accession number NP_060956.1) with a C-terminal DYKDDDDK-Tag. The molecular weight of the protein is 43.8 kDa. The purity of HDAC8 protein is >90% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: HDAC8 (Histone Deacetylase 8) is a member of the class I 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 modi cation 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 e-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).HDAC8 catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. It also is involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin. HDAC8 may play a role in smooth muscle cell contractility.
Product Categories/Family for HDAC8 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923769
NCBI GeneID	55869
NCBI Accession #	NP_060956.1
NCBI GenBank Nucleotide #	NM_018486.2
UniProt Accession #	Q9BY41; Q86VC8; Q9NP76; Q9NYH4; A6ND12; A6ND61; A6NET3; A6NJR3; A8MQ62; B4DKN0; B4DV22
Molecular Weight	31,935 Da
NCBI Official Full Name	histone deacetylase 8 isoform 1
NCBI Official Synonym Full Names	histone deacetylase 8
NCBI Official Symbol	HDAC8
NCBI Official Synonym Symbols	HD8; WTS; RPD3; CDA07; CDLS5; MRXS6; HDACL1
NCBI Protein Information	histone deacetylase 8
UniProt Protein Name	Histone deacetylase 8
UniProt Gene Name	**HDAC8**
UniProt Synonym Gene Names	HDACL1; HD8
UniProt Entry Name	HDAC8_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/hdac8-recombinant-protein-baculovirus/59741