

HDAC11 recombinant protein

Recombinant HDAC11 (2-347) protein

CATALOG #
AAA59743

HOST
Baculovirus

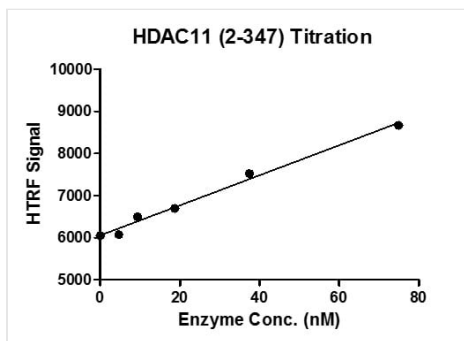
PRODUCT SYNONYMS

HDAC11; Recombinant HDAC11 (2-347) protein; HDAC-11; Histone Deacetylase 11; HD11; HDAC11 recombinant protein

PRODUCT SPECIFICATIONS

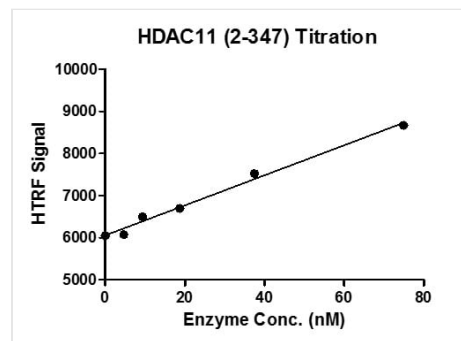
Host	Baculovirus
Purity/Purification	The purity of HDAC11 protein is >70% by SDS-PAGE.
Form/Format	Recombinant HDAC11 (2-347) protein is supplied at a concentration of 0.15ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC11 protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. HDAC Activity Assay Conditions: 1uM H3K9ac peptide was incubated with different concentrations of HDAC11 protein in a 10ul reaction system containing 25mM Tris-HCl pH 8.0, 137mM NaCl, 2.7mM MgCl2, 1mM KCl and 0.1mg/ml BSA for 30 minutes. 10ul H3K9acO antibody and SA-CL665 mixture (each at 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All reactions were performed at room temperature. HTRF assay was used for detection.
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



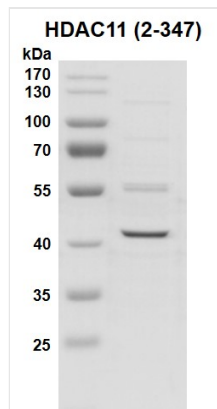
Application Data

HTRF assay for HDAC11 (2-347) protein activity 1 uM histone peptide H3K9ac (1-21) was incubated with HDAC11 (2-347) in reaction buffer for 30 minutes at 37 degree C. H3K9meO antibody was used to detect reaction products.



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SDS-PAGE

Recombinant HDAC11 (2-347) protein gel. HDAC11 (2-347) protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 42.2 kDa Purity: > 70%

ADDITIONAL INFORMATION

Related Product Information for HDAC11 recombinant protein	Short Description: Recombinant HDAC11 (2-347) protein includes amino acids 2-347 of human HDAC11 protein (accession number NP_079103.2); it was expressed in Sf9 cells and contains an N-terminal DYKDDDDK-Tag with a molecular weight of 42.2 kDa. The purity of HDAC11 protein is >70% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: HDAC11 (Histone Deacetylase 11) is a member of the class IV 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 e-amino group of a lysine residue. In humans, expression of HDAC11 is limited to only a few organs, including brain, heart, muscle and kidney, suggesting an important role of HDAC11 in those tissues.
Product Categories/Family for HDAC11 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	217272877
NCBI GeneID	79885
NCBI Accession #	NP_079103.2
NCBI GenBank Nucleotide #	NM_024827.3
UniProt Accession #	Q96DB2; Q9H6I7; Q9H6X3; Q9NTC9; B4DDK1
Molecular Weight	33,124 Da
NCBI Official Full Name	histone deacetylase 11 isoform 1
NCBI Official Synonym Full Names	histone deacetylase 11
NCBI Official Symbol	HDAC11
NCBI Official Synonym Symbols	HD11
NCBI Protein Information	histone deacetylase 11
UniProt Protein Name	Histone deacetylase 11
UniProt Gene Name	HDAC11
UniProt Synonym Gene Names	HD11

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/hdac11-recombinant-protein-baculovirus/59743>