

HDAC3/NCOR2 recombinant protein

Recombinant HDAC3/NCOR2 complex

CATALOG #
AAA59734

HOST
Baculovirus

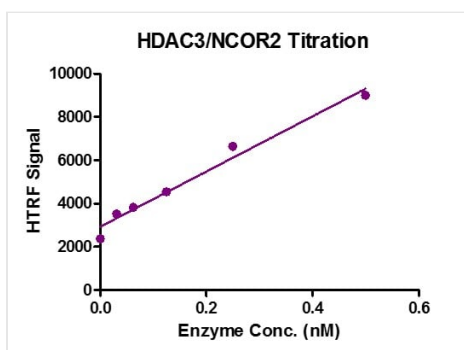
PRODUCT SYNONYMS

HDAC3/NCOR2; Recombinant HDAC3/NCOR2 complex; Histone Deacetylase 3; HD3; SMAP45; HDAC3/NCOR2 recombinant protein

PRODUCT SPECIFICATIONS

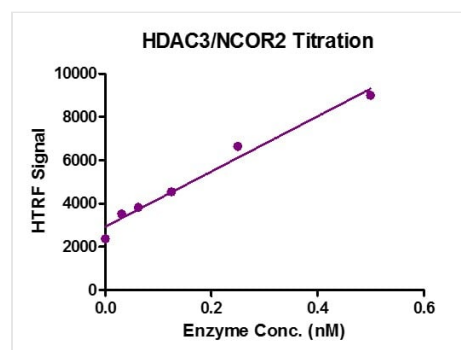
Host	Baculovirus
Purity/Purification	The purity of HDAC3/NCOR2 complex is >90% by SDS-PAGE.
Form/Format	Recombinant HDAC3/NCOR2 complex is supplied in 25mM HEPES pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	This HDAC3/NCOR2 protein complex 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



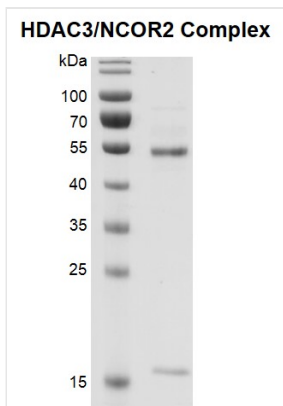
Application Data

HTRF assay for HDAC3 / NCOR2 complex activity 3 μ M Histone H3K9ac (1-21aa) peptide was incubated with different concentrations of HDAC3 / NCOR2 complex in a reaction system with 25 mM Tris-HCl pH 8, 137 mM NaCl, 2.7 mM KCl, 1mM MgCl₂ and 0.1 mg/ml BSA for 30 min at 37 degree C, then H3K9me0 antibody and SA-XL665 mixture was added to each for 30 min. Operations were performed at room temp. HTRF assay was used for detection.



Application Data

HTRF assay for HDAC3 / NCOR2 complex activity 3 μ M Histone H3K9ac (1-21aa) peptide was incubated with different concentrations of HDAC3 / NCOR2 complex in a reaction system with 25 mM Tris-HCl pH 8, 137 mM NaCl, 2.7 mM KCl, 1mM MgCl₂ and 0.1 mg/ml BSA for 30 min at 37 degree C, then H3K9me0 antibody and SA-XL665 mixture was added to each for 30 min. Operations were performed at room temp. HTRF assay was used for detection.



SDS-PAGE

Recombinant HDAC3 / NCOR2 complex gel. HDAC3 / NCOR2 complex was run on an 12.5% SDS-PAGE gel and stained with Coomassie Blue. MW of HDAC3: 50.8 kDa MW of NCOR2: 14.6 kDa

ADDITIONAL INFORMATION

Related Product Information for HDAC3/NCOR2 recombinant protein

Short Description: Recombinant HDAC3/NCOR2 complex includes full-length human HDAC3 protein (accession number NP_003874.2) with a C-terminal DYKDDDDK-Tag and human NCOR2 amino acids 395-489 (accession number NP_006303.4) with an N-terminal 6xHis-tag; it was expressed in Sf9 cells. The molecular weights of HDAC3 and NCOR2 (395-489) are 50.8 kDa and 14.6 kDa, respectively. The purity of HDAC3/NCOR2 complex is >90% by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: HDAC3 (Histone Deacetylase 3, also designated HD3) 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 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 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: class I (HDAC1, HDAC2, HDAC3 and HDAC8), class II (HDAC4, HDAC5, HDAC6, HDAC7, HDAC9 and 10), class III (SIRT1-7) and class IV (HDAC11). By forming multi-protein complexes with the co-repressor NCOR2, HDAC3 regulates the transcription of a plethora of genes. A growing list of non-histone proteins extends the role of HDAC3 beyond transcriptional repression. HDAC1, HDAC2 and HDAC3 are also ubiquitously expressed and can deacetylate both H3 and H4 in free histones or nucleosome substrate.

Product Categories/Family for HDAC3/NCOR2 recombinant protein

Recombinant Proteins; [Histone Deacetylase \(HDAC\)](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13128862
NCBI GeneID	8841
NCBI Accession #	NP_003874.2 ; NP_006303.4
NCBI GenBank Nucleotide #	NM_003883.3
UniProt Accession #	O15379 ; O43268 ; Q9UEI5 ; Q9UEV0 ; D3DQE1
Molecular Weight	48,848 Da
NCBI Official Full Name	histone deacetylase 3
NCBI Official Synonym Full Names	histone deacetylase 3
NCBI Official Symbol	HDAC3
NCBI Official Synonym Symbols	HD3; RPD3; RPD3-2

NCBI Protein Information	histone deacetylase 3; SMAP45
UniProt Protein Name	Histone deacetylase 3
UniProt Gene Name	HDAC3
UniProt Synonym Gene Names	HD3
UniProt Entry Name	HDAC3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hdac3-recombinant-protein-baculovirus/59734>