

HDAC3/NCOR2 recombinant protein

Recombinant HDAC3/NCOR2 complex, His-Tag

CATALOG #
AAA59781

HOST
Baculovirus

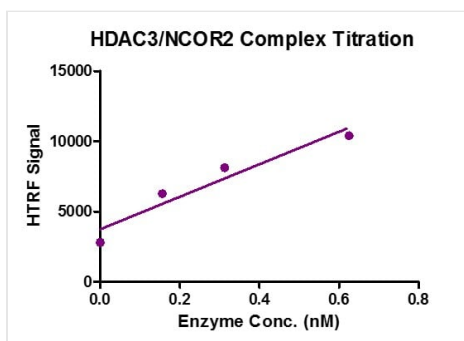
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

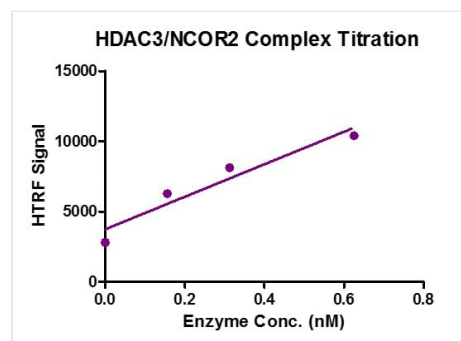
Host	Baculovirus
Form/Format	Recombinant HDAC3/NCOR2 Complex, His-tag is supplied in 50mM Tris-HCl pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag, His-Tag
Notes	This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. HDAC Activity Assay Conditions: 3uM H3K9ac peptide was incubated with different concentrations of HDAC3/NCOR2 Complex, His-tag in reaction buffer including 25mM Tris-HCl pH 8.0, 137mM NaCl, 2.7mM KCl, 1mM MgCl ₂ , 0.1mg/ml BSA for 30 minutes at 37 degree C. HTRF assay was used for activity 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



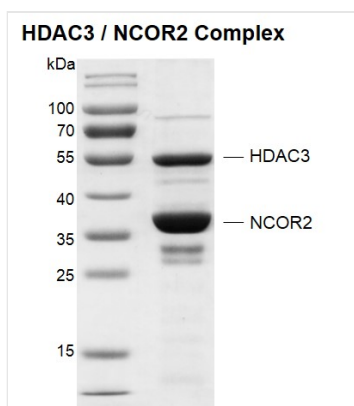
Application Data

HTRF assay for HDAC3 / NCOR2 Complex, His-tag activity 3 uM histone H3K9ac peptide was incubated with different concentrations of HDAC3 / NCOR2 Complex, His-tag in reaction buffer for 30 minutes at 37 degree C. H3K9me0-Eu antibody was used to detect the reaction products.



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SDS-PAGE

Recombinant HDAC3 / NCOR2 complex, His-tag 12% SDS-PAGE Coomassie staining MW:
HDAC3: 49.7 kDa MW: NCOR2: 37.9 kDa Purity: > 85%

ADDITIONAL INFORMATION

Related Product Information for HDAC3/NCOR2 recombinant protein

Short Description: Recombinant HDAC3/NCOR2 complex, His-tag includes full-length human HDAC3 protein (accession number NP_003874.2) with a C-terminal 6xHis-tag and human NCOR2 amino acids 395-489 (accession number NP_006303.4) with an N-terminal GST-Tag; it was expressed in Sf9 cells. The molecular weights of HDAC3 and NCOR2 (395-489) are 49.7 kDa and 37.9 kDa, respectively. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. 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 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: 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-repressors 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.

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Online datasheet: <https://stage.aaabiotech.com/hdac3-recombinant-protein-baculovirus/59781>