

HDAC2 recombinant protein

Recombinant HDAC2 protein

CATALOG #
AAA59726

HOST
Baculovirus

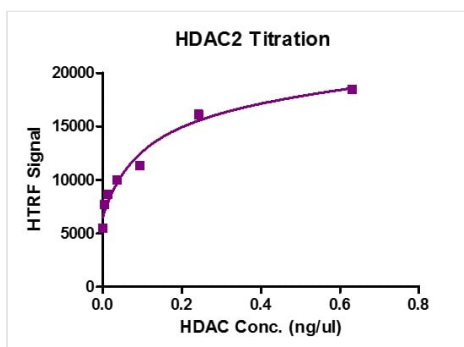
PRODUCT SYNONYMS

HDAC2; Recombinant HDAC2 protein; HD2; RPD3; YAF1; HDAC2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is > 45% pure by SDS-PAGE.
Form/Format	Full length recombinant HDAC2 protein was expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 10% Glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC2 is suitable for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. We offers a variety of protein screening tools including HDAC Assay Kits. HDAC Activity Assay Conditions:1uM H3K9ac peptide was incubated with different concentrations of HDAC2 protein in 10ul reaction system containing 25mM Tris-HCl pH 8.0, 137mM NaCl, 2.7mM KCl, 1mM MgCl2, 0.1mg/ml BSA for 30 min at 37 degree C, then 10ul anti-H3K9me0 antibody and SA-XL665 mixture (1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 1 h 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

Recombinant HDAC2 activity assay. 1 uM H3K9ac peptide was incubated with different concentrations of HDAC2 protein in a reaction system for 30 min at 37 degree C, then H3K9me0 antibody and SA-XL665 mixture was added for 1 h at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant HDAC2 protein gel. HDAC2 protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue. MW: 60 kDa Purity: > 45%

ADDITIONAL INFORMATION

Related Product Information for HDAC2 recombinant protein	Short Description: Recombinant human HDAC2 was expressed in Sf9 cells as the full-length protein (accession number NP_001518.3) with a C-terminal DYKDDDDK-Tag. The molecular weight of the protein is 60 kDa. The recombinant protein is >80% pure by SDS-PAGE. It is suitable for use in histone deacetylase (HDAC) assays, in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: HDAC2 (Histone Deacetylase 2, also designated mammalian RPD3) 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: 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). HDAC2 is associated with many different proteins as YY1 (a mammalian zinc-finger transcription factor). HDAC2 also forms transcriptional repressor complexes containing, among others, HDAC1 or RBBP4. 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 HDAC2 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	293336691
NCBI GeneID	3066
NCBI Accession #	NP_001518.3
NCBI GenBank Nucleotide #	NM_001527.3
UniProt Accession #	Q92769; Q5SRI8; Q5SZ86; Q8NEH4; B4DL58; E1P561
Molecular Weight	55,364 Da
NCBI Official Full Name	histone deacetylase 2
NCBI Official Synonym Full Names	histone deacetylase 2
NCBI Official Symbol	HDAC2
NCBI Official Synonym Symbols	HD2; RPD3; YAF1
NCBI Protein Information	histone deacetylase 2; YY1-associated factor 1; transcriptional regulator homolog RPD3
UniProt Protein Name	Histone deacetylase 2
UniProt Gene Name	HDAC2
UniProt Synonym Gene Names	HD2
UniProt Entry Name	HDAC2_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.