

HDAC6 recombinant protein

Recombinant HDAC6 (597-728, deleted mutant) protein

CATALOG #
AAA59727

HOST
Baculovirus

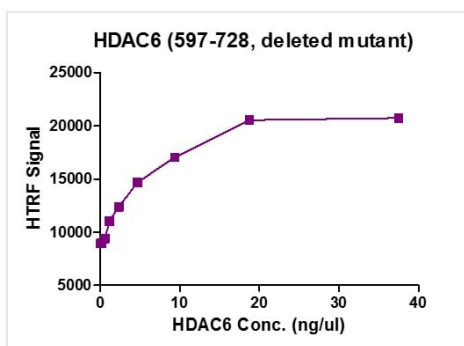
PRODUCT SYNONYMS

HDAC6; Recombinant HDAC6 (597-728; deleted mutant) protein; HD6; JM21; CPBHM; PPP1R90; HDAC6 recombinant protein

PRODUCT SPECIFICATIONS

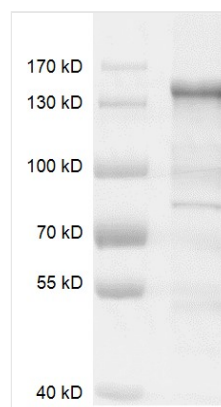
Host	Baculovirus
Purity/Purification	The recombinant protein is >80% pure by SDS-PAGE.
Form/Format	Recombinant HDAC6 (597-728, deleted mutant) is supplied in 25mM Hepes pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP, 0.2mg/ml 3× DYKDDDDK peptide.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant HDAC6 (597-728, deleted mutant) protein is suitable for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. HDAC Activity Assay Conditions: 3uM H3K9ac (1-21) peptides was incubated with different concentrations of HDAC6 (597-728, deleted mutant) in 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 followed by developing for 30 minutes at room temperature.
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 HDAC6 (597-728, deleted mutant) protein activity assay. 3 μ M H3K9ac (1-21) peptides was incubated with different concentrations of HDAC6 (597-728, deleted mutant) in reaction buffer for 30 minutes at 37 degree C followed by developing for 30 minutes at room temperature.



SDS-PAGE

Recombinant HDAC6 (597-728, deleted mutant) protein gel. HDAC6 protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for HDAC6 recombinant protein	Short Description: Recombinant HDAC6 (597-728, deleted mutant) deletes the second catalytic domain. This recombinant protein was expressed in a baculovirus expression system (accession number NP_006035.2) with an N-terminal 6xHis-tag and DYKDDDDK-Tag. The molecular weight of the protein is 122.1 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: HDAC6 (Histone Deacetylase 6) is a member of the class IIb mammalian histone deacetylases (HDACs) involved in regulating chromatin structure during transcription. These enzymes catalyze the removal of acetyl groups from lysine residues of histones or many 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). HDAC6 is a unique enzyme that harbors a full duplication of its deacetylase homology region, which appears to contribute independently to the overall activity of HDAC6 protein. Alpha-tubulin and HSP90 are two known substrates of HDAC6, playing an important role in cellular mechanisms related to the microtubule network and HSP90-dependent events. HDAC6 also participates in regulating expression of a group of genes involved in the remodeling of chromatin during cell differentiation.
Product Categories/Family for HDAC6 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13128864
NCBI GeneID	10013
NCBI Accession #	NP_006035.2
NCBI GenBank Nucleotide #	NM_006044.2
UniProt Accession #	Q9UBN7; O94975; Q6NT75; Q7L3E5; Q96CY0
Molecular Weight	131,419 Da
NCBI Official Full Name	histone deacetylase 6
NCBI Official Synonym Full Names	histone deacetylase 6
NCBI Official Symbol	HDAC6
NCBI Official Synonym Symbols	HD6; JM21
NCBI Protein Information	histone deacetylase 6
UniProt Protein Name	Histone deacetylase 6
UniProt Gene Name	HDAC6
UniProt Synonym Gene Names	KIAA0901; HD6
UniProt Entry Name	HDAC6_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.