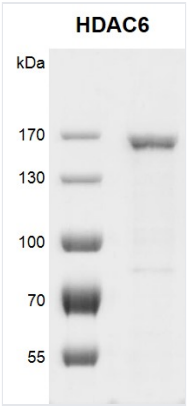
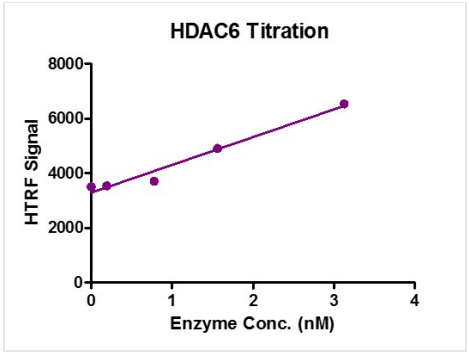
HDAC6 Recombinant Protein

PRODUCT OVERVIEW

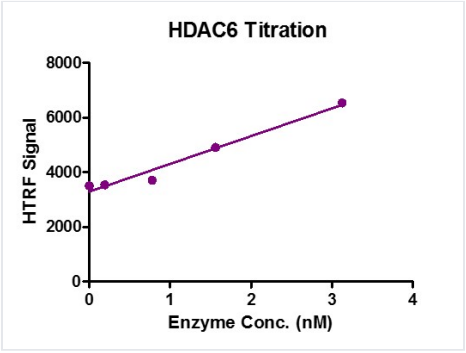
Product Name	HDAC6, Recombinant Protein
Full Product Name	Recombinant HDAC6 protein
Product Gene Name	HDAC6 recombinant protein
Product Synonym Names	HDAC-6; Histone Deacetylase 6; HD6
Host	Baculovirus
Form/Format	Recombinant HDAC6 protein is supplied at a concentration of 0.2ug/ul in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5mM TCEP.
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
Molecular Weight	Molecular weight of the protein is 133.8kDa
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant HDAC6 protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for HDAC6 recombinant protein	Recombinant Proteins; Histone Deacetylase (HDAC)
Related Product Information for HDAC6 recombinant protein	Short Description: Recombinant human HDAC6 was expressed in a baculovirus expression system as the full-length protein (accession number NP_001308154.1) with a C-terminal DYKDDDDK-Tag. The molecular weight of the protein is 135.7 kDa. The recombinant protein is >85% pure by SDS-PAGE. It is suitable for use 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.
Other Notes	Small volumes of HDAC6 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HDAC6 purchase	MBS388247 is a recombinant protein targeting HDAC6. Also known as Recombinant HDAC6 protein. Host: Baculovirus.



SDS-Page of HDAC6 recombinant protein
Recombinant HDAC6 protein gel. HDAC6 protein was run on a 7.5% SDS-PAGE gel and stained with Coomassie Blue. MW: 133.8 kDa Purity: > 90%



Testing Data of HDAC6 recombinant protein
HTRF assay for Recombinant HDAC6 activity 1 uM H3K9ac (1-21 aa) peptide was incubated with different concentrations of HDAC6 protein in a 10 ul reaction system containing 25 mM Tris-HCl pH 8.0, 137 mM NaCl, 1 mM MgCl2, 2.7 mM KCl, 0.1% BSA for 30 min at 37 degree , then 10 &miccro;l H3K9me0 antibody and SA-XL665 mixture (1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min at room temperature. HTRF assay was used for detection.



Testing Data of HDAC6 recombinant protein
HTRF assay for Recombinant HDAC6 activity 1 ?M H3K9ac (1-21 aa) peptide was incubated with different concentrations of HDAC6 protein in a 10 ?l reaction system containing 25 mM Tris-HCl pH 8.0, 137 mM NaCl, 1 mM MgCl2, 2.7 mM KCl, 0.1% BSA for 30 min at 37 ?, then 10 ?l anti-H3K9me0 antibody and SA-XL665 mixture (1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min at room temperature. HTRF assay was used for detection.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC6. It may not necessarily be applicable to this product.

NCBI Accession #	NP_001308154.1
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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