HDAC5 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HDAC5, Blocking Peptide
Full Product Name	HDAC5 Blocking Peptide
Product Gene Name	HDAC5 blocking peptide
Product Synonym Names	Antigen NY CO 9; Antigen NY-CO-9; HD5; HDAC 5; HDAC5; HDAC5_HUMAN; Histone deacetylase 5; NY CO 9
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HDAC5 peptide (MBS9617052) is used for blocking the activity of HDAC5 antibody (MBS9601520)
Molecular Weight	121,978 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (42154121..42201014, complement). Location: 17q21
OMIM	605315
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HDAC5 blocking peptide	Blocking/Control
Related Product Information for HDAC5 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of HDAC5 blocking peptide 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 HDAC5 purchase	MBS9617052 is a blocking peptide targeting HDAC5.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC5. It may not necessarily be applicable to this product.

NCBI GI #	62750349
NCBI GeneID	10014
NCBI Accession #	NP_001015053.1
UniProt Primary Accession #	Q9UQL6
UniProt Secondary Accession #	O60340; O60528; Q96DY4; C9JFV9

UniProt Related Accession #	Q9UQL6
GenBank Nucleotide #	NM_001015053.1
NCBI Official Full Name	histone deacetylase 5 isoform 3
NCBI Official Synonym Full Names	histone deacetylase 5
NCBI Official Symbol	HDAC5
NCBI Official Synonym Symbols	HD5; NY-CO-9
UniProt Protein Name	Histone deacetylase 5
UniProt Synonym Protein Names	Antigen NY-CO-9
UniProt Gene Name	HDAC5
UniProt Synonym Gene Names	KIAA0600; HD5
UniProt Entry Name	HDAC5_HUMAN
NCBI Protein Information	histone deacetylase 5; antigen NY-CO-9
NCBI Summary for HDAC5	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HDAC5	HDAC5: a transcriptional regulator of the histone deacetylase family, subfamily 2. Deacetylates lysine residues on the N-terminal part of the core histones H2A, H2B, H3 AND H4. Plays an important role in transcriptional regulation, cell cycle progression and developmental events. Coimmunoprecipitates only with HDAC3 family members. Interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. Two alternatively spliced isoforms have been described. Protein type: EC 3.5.1.98; Hydrolase Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleoplasm; nuclear body; Golgi apparatus; histone deacetylase complex; cytoplasm; nucleus; cytosol Molecular Function: NAD-dependent histone deacetylase activity (H3-K9 specific); protein binding; protein kinase C binding; NAD-dependent histone deacetylase activity (H3-K14 specific); histone deacetylase binding; metal ion binding; protein deacetylase activity; NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity; transcription corepressor activity; transcription factor binding Biological Process: establishment and/or maintenance of chromatin architecture; heart development; chromatin silencing; negative regulation of transcription from RNA polymerase II promoter; regulation of gene expression, epigenetic; protein amino acid deacetylation; negative regulation of osteoblast differentiation; inflammatory response; response to drug; Notch signaling pathway; regulation of skeletal muscle fiber development; transcription, DNA-dependent; B cell activation; histone deacetylation; chromatin modification; response to cocaine; osteoblast development; chromatin remodeling; cellular response to insulin stimulus; regulation of protein binding; B cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; negative regulation of transcription, DNA-dependent; multicellular organismal response to stress
Research Articles on HDAC5	**1.** Nuclear calcium signaling is a regulator of nuclear export of HDAC4 and HDAC5.

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