Hoxd10 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HoxD10, Blocking Peptide
Full Product Name	HoxD10 Blocking Peptide
Product Gene Name	HoxD10 blocking peptide
Product Synonym Names	AI385591; AI874987; Homeo box 4D; Homeo box D10; Homeobox D10; Homeobox protein Hox-4D; Homeobox protein Hox-4E; Homeobox protein Hox-D10; Hox 4.4; Hox 4.5; Hox 4D; Hox 4E; Hox 5.3; HOX4D; HOX4E; HOXD10; HXD10; HXD10_HUMAN; OTTMUSP00000017845; RP23-313J15.9
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	HoxD10 peptide (MBS9619587) is used for blocking the activity of HoxD10 antibody (MBS9602132)
Molecular Weight	38,411 Da
OMIM	gene+phenotype 192950
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 HoxD10 blocking peptide	Blocking/Control
Related Product Information for HoxD10 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 HoxD10 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 HoxD10 purchase	MBS9619587 is a blocking peptide targeting HoxD10.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HoxD10. It may not necessarily be applicable to this product.

NCBI GI #	23510366
NCBI GeneID	3236
NCBI Accession #	NP_002139.2
UniProt Primary Accession #	P28358
UniProt Secondary Accession #	Q6NT10

UniProt Related Accession #	P28358
GenBank Nucleotide #	NM_002148.3
NCBI Official Full Name	homeobox protein Hox-D10
NCBI Official Synonym Full Names	homeobox D10
NCBI Official Symbol	HOXD10
NCBI Official Synonym Symbols	HOX4; HOX4D; HOX4E; Hox-4.4
UniProt Protein Name	Homeobox protein Hox-D10
UniProt Synonym Protein Names	Homeobox protein Hox-4D; Homeobox protein Hox-4E
Protein Family	Homeobox protein
UniProt Gene Name	HOXD10
UniProt Synonym Gene Names	HOX4D; HOX4E
UniProt Entry Name	HXD10_HUMAN
NCBI Protein Information	homeobox protein Hox-D10; homeo box 4D; homeo box D10; homeobox protein Hox-4D; homeobox protein Hox-4E
NCBI Summary for HoxD10	This gene is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox D genes located on chromosome 2. The encoded nuclear protein functions as a sequence-specific transcription factor that is expressed in the developing limb buds and is involved in differentiation and limb development. Mutations in this gene have been associated with Wilm's tumor and congenital vertical talus (also known as "rocker-bottom foot" deformity or congenital convex pes valgus) and/or a foot deformity resembling that seen in Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]
UniProt Comments for HoxD10	HOXD10: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Defects in HOXD10 are a cause of congenital vertical talus (CVT); also known as rocker-bottom foot deformity or congenital convex pes valgus. CVT is a dislocation of the talonavicular joint, with rigid dorsal dislocation of the navicular over the neck of the talus. This condition is usually associated with multiple other congenital deformities and only rarely is an isolated deformity. Belongs to the Abd-B homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: nucleus Molecular Function: sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: forelimb morphogenesis; anterior/posterior pattern formation; peripheral nervous system neuron development; hindlimb morphogenesis; skeletal muscle development; transcription, DNA-dependent; adult locomotory behavior; neuromuscular process; single fertilization; spinal cord motor neuron cell fate specification; positive regulation of transcription from RNA polymerase II promoter; proximal/distal pattern formation; embryonic limb morphogenesis; embryonic skeletal morphogenesis Disease: Vertical Talus, Congenital
Research Articles on HoxD10	**1.** KLF4 and HOXD10 were identified as direct targets of miR-10b in bladder cancer cells
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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