HOXD13 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HOXD13, Blocking Peptide
Full Product Name	HOXD13 Blocking Peptide
Product Gene Name	HOXD13 blocking peptide
Product Synonym Names	HOXD13; BDE; BDSD; Homeo box 4I; Homeo box D13; Homeo box protein Hox D13; Homeo box protein HoxD13; Homeobox 4I; Homeobox D13; homeobox protein Hox 4I; Homeobox protein Hox D13; Homeobox protein Hox-D13; Homeobox protein HoxD13; Homeobox4I; HomeoboxD13; Hox 4I; HOX D13; Hox-4.8; Hox4I; HOXD 13; HoxD13; SPD
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	HOXD13 peptide (MBS9628606) is used for blocking the activity of HOXD13 antibody (MBS9609902)
Molecular Weight	36,101 Da
OMIM	phenotype 610713
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 HOXD13 blocking peptide	Blocking/Control
Related Product Information for HOXD13 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 HOXD13 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 HOXD13 purchase	MBS9628606 is a blocking peptide targeting HOXD13.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HOXD13. It may not necessarily be applicable to this product.

NCBI GI #	116734702
NCBI GeneID	3239
NCBI Accession #	NP_000514.2
UniProt Primary Accession #	P35453

UniProt Related Accession #	P35453
GenBank Nucleotide #	NM_000523.3
NCBI Official Full Name	homeobox protein Hox-D13
NCBI Official Synonym Full Names	homeobox D13
NCBI Official Symbol	HOXD13
NCBI Official Synonym Symbols	BDE; SPD; BDSD; HOX4I
UniProt Protein Name	Homeobox protein Hox-D13
UniProt Synonym Protein Names	Homeobox protein Hox-4I
Protein Family	Homeobox protein
UniProt Gene Name	HOXD13
UniProt Synonym Gene Names	HOX4I
UniProt Entry Name	HXD13_HUMAN
NCBI Protein Information	homeobox protein Hox-D13; homeo box 4I; homeo box D13; homeobox protein Hox-4I
NCBI Summary for HOXD13	This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. Mutations in this particular gene cause synpolydactyly. [provided by RefSeq, Jul 2008]

UniProt Comments for HOXD13	HOXD13: 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 HOXD13 are the cause of synpolydactyly 1 (SPD1); also known as syndactyly type 2 (SDTY2). SPD1 is a limb malformation that shows a characteristic manifestation in both hands and feet. This condition is inherited as an autosomal dominant trait with reduced penetrance. Defects in HOXD13 are the cause of brachydactyly type D (BDD). BDD is characterized by short and broad terminal phalanges of the thumbs and big toes. Inheritance is autosomal dominant. Defects in HOXD13 are the cause of syndactyly type 5 (SDTY5); also known as syndactyly with metacarpal and metatarsal fusion. The metacarpals and metatarsals most commonly fused are the 4th and 5th or the 3rd and 4th. Soft tissue syndactyly usually affects the 3rd and 4th fingers and the 2nd and 3rd toes. Inheritance is autosomal dominant. Defects in HOXD13 are the cause of brachydactyly- syndactyly syndrome (BDSD). Most of affected individuals exhibit generalized shortening of the hands and feet, broad and short distal phalanges of the thumbs, and cutaneous syndactyly of toes 2 and 3. The limb phenotypes observed in this syndrome overlap those of brachydactyly types A4, D, E and syndactyly type 1. Defects in HOXD13 are the cause of brachydactyly type E (BDE1). BDE is characterized by shortening of the fingers mainly in the metacarpals and metatarsals. Inheritance is autosomal dominant. Defects in HOXD13 are a cause of VACTERL association (VACTERL); which includes also VATER association. VACTERL is an acronym for vertebral anomalies, anal atresia, congenital cardiac disease, tracheoesophageal fistula, renal anomalies, radial dysplasia, and other limb defects. Belongs to the Abd-B homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: nucleus Molecular Function: DNA binding; sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: anterior/posterior pattern formation; transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; multicellular organismal development; male genitalia development; positive regulation of transcription from RNA polymerase II promoter; embryonic digit morphogenesis; skeletal development; regulation of cell proliferation; embryonic hindgut morphogenesis Disease: Synpolydactyly 1; Brachydactyly-syndactyly Syndrome; Brachydactyly, Type E1; Syndactyly, Type V; Brachydactyly, Type D; Vater Association
Research Articles on HOXD13	**1.** Identification of a novel c.659G>C (p.Gly220Ala) mutation outside the HOXD13 homeodomain responsible for synpolydactyly in a Chinese family.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/hoxd13/9628606