MEOX2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MEOX2, Blocking Peptide
Full Product Name	MEOX2 Blocking Peptide
Product Gene Name	MEOX2 blocking peptide
Product Synonym Names	GAX; Growth arrest-specific homeobox; Homeobox protein MOX 2; Homeobox protein MOX-2; meox2; MEOX2_HUMAN; Mesenchyme homeobox 2; MOX2
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	MEOX2 peptide (MBS9623371) is used for blocking the activity of MEOX2 antibody (MBS9604654)
Molecular Weight	33,594 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (15650837..15726308, complement). Location: 7p22.1-p21.3
OMIM	600535
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 MEOX2 blocking peptide	Blocking/Control
Related Product Information for MEOX2 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 MEOX2 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 MEOX2 purchase	MBS9623371 is a blocking peptide targeting MEOX2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEOX2. It may not necessarily be applicable to this product.

NCBI GI #	84105335
NCBI GeneID	4223
NCBI Accession #	NP_005915.2
UniProt Primary Accession #	P50222
UniProt Secondary Accession #	O75263; Q9UPL6; A4D127; B2R8I7

UniProt Related Accession #	P50222
GenBank Nucleotide #	NM_005924.4
NCBI Official Full Name	homeobox protein MOX-2
NCBI Official Synonym Full Names	mesenchyme homeobox 2
NCBI Official Symbol	MEOX2
NCBI Official Synonym Symbols	GAX; MOX2
UniProt Protein Name	Homeobox protein MOX-2
UniProt Synonym Protein Names	Growth arrest-specific homeobox; Mesenchyme homeobox 2
Protein Family	Homeobox protein
UniProt Gene Name	MEOX2
UniProt Synonym Gene Names	GAX; MOX2
UniProt Entry Name	MEOX2_HUMAN
NCBI Protein Information	homeobox protein MOX-2; growth arrest-specific homeobox
NCBI Summary for MEOX2	This gene encodes a member of a subfamily of non-clustered, diverged, antennapedia-like homeobox-containing genes. The encoded protein may play a role in the regulation of vertebrate limb myogenesis. Mutations in the related mouse protein may be associated with craniofacial and/or skeletal abnormalities, in addition to neurovascular dysfunction observed in Alzheimer's disease. [provided by RefSeq, Jul 2008]
UniProt Comments for MEOX2	MEOX2: Role in mesoderm induction and its earliest regional specification, somitogenesis, and myogenic and sclerotomal differentiation. May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 7p22.1-p21.3 Cellular Component: cytoplasm; nuclear speck; nucleus Molecular Function: protein binding; sequence-specific DNA binding; transcription factor activity Biological Process: limb development; skeletal muscle development; somite specification; transcription, DNA-dependent; blood circulation; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter; palate development; angiogenesis
Research Articles on MEOX2	**1.** MEOX1 and MEOX2 activate p16(INK4a) in a DNA binding dependent manner, whereas they induce p21(CIP1/WAF1) in a DNA binding independent manner.
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/meox2/9623371