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

PRODUCT OVERVIEW

Product Name	MDFI, Blocking Peptide
Full Product Name	MDFI Blocking Peptide
Product Gene Name	MDFI blocking peptide
Product Synonym Names	I MF; I mfa; Inhibitor of MyoD family a; Mdfi; MDFI_HUMAN; MyoD family inhibitor; Myogenic repressor I-mf; OTTHUMP00000016375; OTTHUMP00000016376; OTTHUMP00000196103; OTTHUMP00000196414; OTTHUMP00000196415
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	MDFI peptide (MBS9624365) is used for blocking the activity of MDFI antibody (MBS9605648)
Molecular Weight	25,029 Da
OMIM	604971
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 MDFI blocking peptide	Blocking/Control
Related Product Information for MDFI 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 MDFI 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 MDFI purchase	MBS9624365 is a blocking peptide targeting MDFI.

ADDITIONAL DETAILS

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

NCBI GI #	663853311
NCBI GeneID	4188
NCBI Accession #	NP_001287733.1
UniProt Primary Accession #	Q99750
UniProt Related Accession #	Q99750

GenBank Nucleotide #	NM_001300804.1
NCBI Official Full Name	myoD family inhibitor isoform 1
NCBI Official Synonym Full Names	MyoD family inhibitor
NCBI Official Symbol	MDFI
NCBI Official Synonym Symbols	I-MF; I-mfa
UniProt Protein Name	MyoD family inhibitor
UniProt Synonym Protein Names	Myogenic repressor I-mf
Protein Family	MyoD family inhibitor
UniProt Gene Name	MDFI
UniProt Entry Name	MDFI_HUMAN
NCBI Protein Information	myoD family inhibitor
NCBI Summary for MDFI	This protein is a transcription factor that negatively regulates other myogenic family proteins. Studies of the mouse homolog, I-mf, show that it interferes with myogenic factor function by masking nuclear localization signals and preventing DNA binding. Knockout mouse studies show defects in the formation of vertebrae and ribs that also involve cartilage formation in these structures. [provided by RefSeq, Jul 2008]
UniProt Comments for MDFI	MDFI: Inhibits the transactivation activity of the Myod family of myogenic factors and represses myogenesis. Acts by associating with Myod family members and retaining them in the cytoplasm by masking their nuclear localization signals. Can also interfere with the DNA-binding activity of Myod family members. Plays an important role in trophoblast and chondrogenic differentiation. Regulates the transcriptional activity of TCF7L1/TCF3 by interacting directly with TCF7L1/TCF3 and preventing it from binding DNA. Binds to the axin complex, resulting in an increase in the level of free beta-catenin. Affects axin regulation of the WNT and JNK signaling pathways. Belongs to the MDFI family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p21 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; transcription factor binding Biological Process: embryonic development; cytoplasmic sequestering of transcription factor; negative regulation of Wnt receptor signaling pathway; dorsal/ventral axis specification; negative regulation of transcription from RNA polymerase II promoter; negative regulation of DNA binding; activation of JNK activity; embryonic skeletal morphogenesis
Research Articles on MDFI	**1.** MDFI was significantly hypermethylated in colorectal cancer tissues when compared with adjacent normal colorectal tissues.
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