MEF2B siRNA – Myocyte-Specific Enhancer Factor 2b (Human)

PRODUCT OVERVIEW

Product Name	MEF2B, siRNA
Full Product Name	MEF2B siRNA (Human)
Product Gene Name	MEF2B sirna
Product Synonym Names	XMEF2; Myocyte-specific enhancer factor 2B; RSRFR2; Serum response factor-like protein 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MEF2B siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	39,144 Da
OMIM	600661
3D Structure	ModBase 3D Structure for Q02080
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human MEF2B gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for MEF2B sirna	RNA Interference (RNAi)
Related Product Information for MEF2B sirna	MBS827280 is an siRNA targeting MEF2B. Also known as MEF2B siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MEF2B expression using RNA interference
Other Notes	Small volumes of MEF2B sirna 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEF2B. It may not necessarily be applicable to this product.

NCBI GI #	224809412
NCBI GeneID	100271849
NCBI Accession #	NP_001139257.1
UniProt Primary Accession #	Q02080
UniProt Secondary Accession #	A0AV80; B4DVH7; B7ZVY1; G5E9M1
UniProt Related Accession #	Q02080
GenBank Nucleotide #	NM_001145785.1
NCBI Official Full Name	myocyte-specific enhancer factor 2B
NCBI Official Synonym Full Names	myocyte enhancer factor 2B
NCBI Official Symbol	MEF2B
NCBI Official Synonym Symbols	RSRFR2
UniProt Protein Name	Myocyte-specific enhancer factor 2B
UniProt Synonym Protein Names	RSRFR2; Serum response factor-like protein 2
Protein Family	Myocyte-specific enhancer factor
UniProt Gene Name	MEF2B
UniProt Synonym Gene Names	XMEF2
UniProt Entry Name	MEF2B_HUMAN
NCBI Protein Information	myocyte-specific enhancer factor 2B
NCBI Summary for MEF2B	The product of this gene is a member of the MADS/MEF2 family of DNA binding proteins. The protein is thought to regulate gene expression, including expression of the smooth muscle myosin heavy chain gene. This region undergoes considerable alternative splicing, with transcripts supporting two non-overlapping loci (GeneID 729991 and 100271849) as well as numerous read-through transcripts that span both loci (annotated as GeneID 4207). Several isoforms of this protein are expressed from either this locus or from some of the read-through transcripts annotated on GeneID 4207. [provided by RefSeq, Jan 2014]
UniProt Comments for MEF2B	MEF2B: Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle- specific genes. Activates transcription via this element. May be involved in muscle-specific and/or growth factor-related transcription. Belongs to the MEF2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; cell junction; nucleus Molecular Function: protein dimerization activity; histone deacetylase binding; transcription factor activity Biological Process: muscle development; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter
Research Articles on MEF2B	**1.** MEF2B mutations lead to deregulated expression of the oncogene BCL6 in diffuse large B cell lymphoma.
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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