MTMR4 siRNA – Myotubularin-Related Protein 4 (Mouse)

PRODUCT OVERVIEW

Product Name	MTMR4, siRNA
Full Product Name	MTMR4 siRNA (Mouse)
Product Gene Name	MTMR4 sirna
Product Synonym Names	Myotubularin-related protein 4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MTMR4 siRNA (Mouse) 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	126,264 Da
3D Structure	ModBase 3D Structure for Q91XS1
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 mouse MTMR4 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 MTMR4 sirna	RNA Interference (RNAi)
Related Product Information for MTMR4 sirna	MBS827435 is an siRNA targeting MTMR4. Also known as MTMR4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MTMR4 expression using RNA interference
Other Notes	Small volumes of MTMR4 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 MTMR4. It may not necessarily be applicable to this product.

NCBI GI #	18875368

NCBI GeneID	170749
NCBI Accession #	NP_573478.1
UniProt Primary Accession #	Q91XS1
UniProt Secondary Accession #	Q5ND06; Q5ND08
UniProt Related Accession #	Q91XS1
GenBank Nucleotide #	NM_133215.1
NCBI Official Full Name	myotubularin-related protein 4
NCBI Official Synonym Full Names	myotubularin related protein 4
NCBI Official Symbol	Mtmr4
NCBI Official Synonym Symbols	ESTM44; ZFYVE11; AA596759; FYVE-DSP2; mKIAA0647
UniProt Protein Name	Myotubularin-related protein 4
Protein Family	Myotubularin-related protein
UniProt Gene Name	Mtmr4
UniProt Entry Name	MTMR4_MOUSE
NCBI Protein Information	myotubularin-related protein 4
UniProt Comments for MTMR4	MTMR4: Dephosphorylates proteins phosphorylated on Ser, Thr, and Tyr residues and low molecular weight phosphatase substrate para-nitrophenylphosphate. Phosphorylates phosphatidylinositol 3,4,5-trisphosphate (PIP3). Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily. Protein type: EC 3.1.3.48; Protein phosphatase, dual-specificity; Phosphatase, lipid; Motility/polarity/chemotaxis; Protein phosphatase, tyrosine (non-receptor) Cellular Component: extracellular space; membrane; cytoplasm Molecular Function: hydrolase activity; metal ion binding; phosphoric monoester hydrolase activity; protein tyrosine phosphatase activity; phosphoprotein phosphatase activity Biological Process: dephosphorylation
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