METTL17 siRNA – Methyltransferase-Like Protein 17, Mitochondrial (Mouse)

PRODUCT OVERVIEW

Product Name	METTL17, siRNA
Full Product Name	METTL17 siRNA (Mouse)
Product Gene Name	METTL17 sirna
Product Synonym Names	D14ERTD209E; METT11D1; Methyltransferase-like protein 17 mitochondrial; Methyltransferase 11 domain-containing protein 1; Protein RSM22 homolog mitochondrial
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	METTL17 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	52,061 Da
3D Structure	ModBase 3D Structure for Q3U2U7
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 METTL17 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 METTL17 sirna	RNA Interference (RNAi)
Related Product Information for METTL17 sirna	MBS8225947 is an siRNA targeting METTL17. Also known as METTL17 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit METTL17 expression using RNA interference
Other Notes	Small volumes of METTL17 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 METTL17. It may not necessarily be applicable to this product.

NCBI GI #	71725396
NCBI GeneID	52535
NCBI Accession #	NP_001025161.1
UniProt Primary Accession #	Q3U2U7
UniProt Secondary Accession #	B2RSP2
UniProt Related Accession #	Q3U2U7
GenBank Nucleotide #	NM_001029990.1
NCBI Official Full Name	methyltransferase-like protein 17, mitochondrial
NCBI Official Synonym Full Names	methyltransferase like 17
NCBI Official Symbol	Mettl17
NCBI Official Synonym Symbols	Mett11d1; D14Ertd209e; 2310032K15Rik
UniProt Protein Name	Methyltransferase-like protein 17, mitochondrial
UniProt Synonym Protein Names	Methyltransferase 11 domain-containing protein 1; Protein RSM22 homolog, mitochondrial
Protein Family	Methyltransferase-like protein
UniProt Gene Name	Mettl17
UniProt Synonym Gene Names	D14Ertd209e; Mett11d1
UniProt Entry Name	MET17_MOUSE
NCBI Protein Information	methyltransferase-like protein 17, mitochondrial
UniProt Comments for METTL17	METT11D1: May be a component of the mitochondrial small ribosomal subunit. Belongs to the methyltransferase superfamily. Rsm22 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; EC 2.1.1.- Cellular Component: nucleoplasm; mitochondrion; ribosome; nucleus; ribonucleoprotein complex Molecular Function: methyltransferase activity; trimethylamine methyltransferase activity; monomethylamine methyltransferase activity; tRNA (cytosine)-methyltransferase activity; RNA methyltransferase activity; rRNA (cytosine-C5-967)-methyltransferase activity; rRNA (uridine) methyltransferase activity; N-methyltransferase activity; tRNA (guanine) methyltransferase activity; rRNA (adenine-N6,N6-)-dimethyltransferase activity; arginine N-methyltransferase activity; selenocysteine methyltransferase activity; protein-arginine N-methyltransferase activity; methanol-specific methylcobalamin:coenzyme M methyltransferase activity; tRNA (guanine-N2-)-methyltransferase activity; dimethylamine methyltransferase activity; protein methyltransferase activity; 2-polyprenyl-6-methoxy-1,4-benzoquinone methyltransferase activity; transferase activity; hydroxyneurosporene-O-methyltransferase activity; copper ion binding; rRNA (uridine-2'-O-)-methyltransferase activity; tRNA (uracil) methyltransferase activity; rRNA (adenine) methyltransferase activity; C-methyltransferase activity; cobalt-precorrin-6B C5-methyltransferase activity; cobalt-precorrin-3 C17-methyltransferase activity; 1-phenanthrol methyltransferase activity; S-methyltransferase activity; lysine N-methyltransferase activity; DNA-methyltransferase activity; tRNA (cytosine-5-)-methyltransferase activity; tRNA (adenine)-methyltransferase activity; C-terminal protein carboxyl methyltransferase activity; rRNA (cytosine) methyltransferase activity; cobalt-precorrin-7 C15-methyltransferase activity; protein-arginine N5-methyltransferase activity; rRNA methyltransferase activity; protein-leucine O-methyltransferase activity; demethylmenaquinone methyltransferase activity; rRNA (adenine-N6-)-methyltransferase activity; tRNA methyltransferase activity; rRNA (guanine) methyltransferase activity; methylarsonite methyltransferase activity; mRNA methyltransferase activity; methylamine-specific methylcobalamin:coenzyme M methyltransferase activity; tRNA (guanine-N1-)-methyltransferase activity; cobalt-precorrin-5B C1-methyltransferase activity; protein-lysine N-methyltransferase activity; O-methyltransferase activity; tRNA (adenine-N1-)-methyltransferase activity; tRNA (adenine-57, 58-N(1)-) methyltransferase activity Biological Process: methylation; translation

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