METRNL siRNA – Meteorin-Like Protein (Human)

PRODUCT OVERVIEW

Product Name	METRNL, siRNA
Full Product Name	METRNL siRNA (Human)
Product Gene Name	METRNL sirna
Product Synonym Names	Meteorin-like protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	METRNL 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	25,738 Da
OMIM	616241
3D Structure	ModBase 3D Structure for Q641Q3
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 METRNL 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 METRNL sirna	RNA Interference (RNAi)
Related Product Information for METRNL sirna	MBS8216334 is an siRNA targeting METRNL. Also known as METRNL siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit METRNL expression using RNA interference
Other Notes	Small volumes of METRNL 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 METRNL. It may not necessarily be applicable to this product.

NCBI GI #	52345387
NCBI GeneID	284207
NCBI Accession #	NP_001004431.1
UniProt Primary Accession #	Q641Q3
UniProt Secondary Accession #	Q86VM0; B3KSJ5
UniProt Related Accession #	Q641Q3
GenBank Nucleotide #	NM_001004431.2
NCBI Official Full Name	meteorin-like protein
NCBI Official Synonym Full Names	meteorin, glial cell differentiation regulator-like
NCBI Official Symbol	METRNL
UniProt Protein Name	Meteorin-like protein
UniProt Synonym Protein Names	Subfatin
Protein Family	Meteorin-like protein
UniProt Gene Name	METRNL
UniProt Entry Name	METRL_HUMAN
NCBI Protein Information	meteorin-like protein
UniProt Comments for METRNL	METRNL: Belongs to the meteorin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: extracellular space Molecular Function: hormone activity Biological Process: fat cell differentiation; response to muscle activity; negative regulation of inflammatory response; brown fat cell differentiation; response to cold
Research Articles on METRNL	**1.** Results show that Subfatin is a novel adipokine regulated by adipogenesis and obesity, with tissue distribution different from its homologue Meteorin
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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