MTNR1A siRNA – Melatonin Receptor Type 1a (Mouse)

PRODUCT OVERVIEW

Product Name	MTNR1A, siRNA
Full Product Name	MTNR1A siRNA (Mouse)
Product Gene Name	MTNR1A sirna
Product Synonym Names	Melatonin receptor type 1A; Mel-1A-R; Mel1a receptor
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MTNR1A 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	39,837 Da
3D Structure	ModBase 3D Structure for Q61184
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 MTNR1A 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 MTNR1A sirna	RNA Interference (RNAi)
Related Product Information for MTNR1A sirna	MBS8234589 is an siRNA targeting MTNR1A. Also known as MTNR1A siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MTNR1A expression using RNA interference
Other Notes	Small volumes of MTNR1A 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 MTNR1A. It may not necessarily be applicable to this product.

NCBI GI #	6678954

NCBI GeneID	17773
NCBI Accession #	NP_032665.1
UniProt Primary Accession #	Q61184
UniProt Related Accession #	Q61184
GenBank Nucleotide #	NM_008639.2
NCBI Official Full Name	melatonin receptor type 1A
NCBI Official Synonym Full Names	melatonin receptor 1A
NCBI Official Symbol	Mtnr1a
NCBI Official Synonym Symbols	MR; MelR
UniProt Protein Name	Melatonin receptor type 1A
Protein Family	Melatonin receptor
UniProt Gene Name	Mtnr1a
UniProt Synonym Gene Names	Mel-1A-R; Mel1a receptor
UniProt Entry Name	MTR1A_MOUSE
NCBI Protein Information	melatonin receptor type 1A
UniProt Comments for MTNR1A	MTNR1A: High affinity receptor for melatonin. Likely to mediates the reproductive and circadian actions of melatonin. The activity of this receptor is mediated by pertussis toxin sensitive G proteins that inhibit adenylate cyclase activity. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, integral; Receptor, GPCR; Motility/polarity/chemotaxis; Membrane protein, multi-pass Cellular Component: membrane; cell soma; integral to plasma membrane; plasma membrane; integral to membrane; receptor complex Molecular Function: G-protein coupled receptor activity; signal transducer activity; hormone binding; melatonin receptor activity Biological Process: circadian rhythm; G-protein coupled receptor protein signaling pathway; positive regulation of cGMP biosynthetic process; signal transduction; negative regulation of insulin secretion
Research Articles on MTNR1A	**1.** The effect of miR-29b on endothelial permeability and apoptosis is mediated through the down-regulation of melatonin receptor 1.
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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