MT1X siRNA – Metallothionein-1x (Human)

PRODUCT OVERVIEW

Product Name	MT1X, siRNA
Full Product Name	MT1X siRNA (Human)
Product Gene Name	MT1X sirna
Product Synonym Names	Metallothionein-1X; MT-1X; Metallothionein-IX; MT-IX
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MT1X 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	6,068 Da
OMIM	156359
3D Structure	ModBase 3D Structure for P80297
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 MT1X 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 MT1X sirna	RNA Interference (RNAi)
Related Product Information for MT1X sirna	MBS8237719 is an siRNA targeting MT1X. Also known as MT1X siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MT1X expression using RNA interference
Other Notes	Small volumes of MT1X 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 MT1X. It may not necessarily be applicable to this product.

NCBI GI #	10835232
NCBI GeneID	4501
NCBI Accession #	NP_005943.1
UniProt Primary Accession #	P80297
UniProt Secondary Accession #	A8MUC7
UniProt Related Accession #	P80297
GenBank Nucleotide #	NM_005952.3
NCBI Official Full Name	metallothionein-1X
NCBI Official Synonym Full Names	metallothionein 1X
NCBI Official Symbol	MT1X
NCBI Official Synonym Symbols	MT1; MT-1l
UniProt Protein Name	Metallothionein-1X
UniProt Synonym Protein Names	Metallothionein-IX; MT-IX
Protein Family	Metallothionein
UniProt Gene Name	MT1X
UniProt Synonym Gene Names	MT-1X; MT-IX
UniProt Entry Name	MT1X_HUMAN
NCBI Protein Information	metallothionein-1X
UniProt Comments for MT1X	MT1X: Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids. Belongs to the metallothionein superfamily. Type 1 family. Chromosomal Location of Human Ortholog: 16q13 Cellular Component: perinuclear region of cytoplasm; cytoplasm; nucleus Molecular Function: zinc ion binding; metal ion binding Biological Process: response to metal ion; cellular zinc ion homeostasis; detoxification of copper ion; nitric oxide mediated signal transduction; negative regulation of growth
Research Articles on MT1X	**1.** These findings suggest that functional interactions between FHL3 and MT-1X may provide some clues to the mechanisms of FHL3-regulated cell proliferation.
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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