MPND siRNA – MPN Domain-Containing Protein Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	MPND, siRNA
Full Product Name	MPND siRNA (Human)
Product Gene Name	MPND sirna
Product Synonym Names	MPN domain-containing protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MPND 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	48,586 Da
3D Structure	ModBase 3D Structure for Q8N594
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 MPND 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 MPND sirna	RNA Interference (RNAi)
Related Product Information for MPND sirna	MBS8208582 is an siRNA targeting MPND. Also known as MPND siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MPND expression using RNA interference
Other Notes	Small volumes of MPND 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 MPND. It may not necessarily be applicable to this product.

NCBI GI #	229577180

NCBI GeneID	84954
NCBI Accession #	NP_001153318.1
UniProt Primary Accession #	Q8N594
UniProt Secondary Accession #	Q96SJ0; Q9Y2P1; Q9Y2P2
UniProt Related Accession #	Q8N594
GenBank Nucleotide #	NM_001159846.2
NCBI Official Full Name	MPN domain-containing protein isoform 2
NCBI Official Synonym Full Names	MPN domain containing
NCBI Official Symbol	MPND
UniProt Protein Name	MPN domain-containing protein
Protein Family	MPN domain-containing protein
UniProt Gene Name	MPND
UniProt Entry Name	MPND_HUMAN
NCBI Protein Information	MPN domain-containing protein
UniProt Comments for MPND	MPND: Probable protease. Belongs to the peptidase M67 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.-.- Chromosomal Location of Human Ortholog: 19p13.3 Molecular Function: peptidase activity Biological Process: proteolysis
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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