MED10 siRNA – Mediator of RNA Polymerase II Transcription Subunit 10 (Human)

PRODUCT OVERVIEW

Product Name	MED10, siRNA
Full Product Name	MED10 siRNA (Human)
Product Gene Name	MED10 sirna
Product Synonym Names	Mediator of RNA polymerase II transcription subunit 10; Mediator complex subunit 10; Transformation-related gene 17 protein; TRG-17; Transformation-related gene 20 protein; TRG-20
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MED10 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	15,688 Da
OMIM	612382
3D Structure	ModBase 3D Structure for Q9BTT4
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 MED10 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 MED10 sirna	RNA Interference (RNAi)
Related Product Information for MED10 sirna	MBS8223360 is an siRNA targeting MED10. Also known as MED10 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MED10 expression using RNA interference
Other Notes	Small volumes of MED10 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 MED10. It may not necessarily be applicable to this product.

NCBI GI #	49227854
NCBI GeneID	84246
NCBI Accession #	NP_115662.2
UniProt Primary Accession #	Q9BTT4
UniProt Secondary Accession #	C6G491
UniProt Related Accession #	Q9BTT4
GenBank Nucleotide #	NM_032286.2
NCBI Official Full Name	mediator of RNA polymerase II transcription subunit 10
NCBI Official Synonym Full Names	mediator complex subunit 10
NCBI Official Symbol	MED10
NCBI Official Synonym Symbols	L6; NUT2; TRG20
UniProt Protein Name	Mediator of RNA polymerase II transcription subunit 10
UniProt Synonym Protein Names	Mediator complex subunit 10; Transformation-related gene 17 protein; TRG-17; Transformation-related gene 20 protein; TRG-20
Protein Family	Putative mediator of RNA polymerase II transcription
UniProt Gene Name	MED10
UniProt Synonym Gene Names	TRG-17; TRG-20
UniProt Entry Name	MED10_HUMAN
NCBI Protein Information	mediator of RNA polymerase II transcription subunit 10
NCBI Summary for MED10	MED10 is a component of the Mediator complex, which is a coactivator for DNA-binding factors that activate transcription via RNA polymerase II (Sato et al., 2003 [PubMed 12584197]).[supplied by OMIM, Oct 2008]
UniProt Comments for MED10	MED10: Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. Belongs to the Mediator complex subunit 10 family. Protein type: Transcription, coactivator/corepressor; Transcription initiation complex; Motility/polarity/chemotaxis; Cell development/differentiation Chromosomal Location of Human Ortholog: 5p15.31 Cellular Component: nucleoplasm; Srb-mediator complex Molecular Function: protein binding Biological Process: transcription initiation from RNA polymerase II promoter; stem cell maintenance; positive regulation of transcription from RNA polymerase II promoter; gene expression
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/med10/8223360