TDRD3 siRNA – Tudor Domain-Containing Protein 3 Isoform 2 (Mouse)

PRODUCT OVERVIEW

Product Name	TDRD3, siRNA
Full Product Name	TDRD3 siRNA (Mouse)
Product Gene Name	TDRD3 sirna
Product Synonym Names	Tudor domain-containing protein 3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TDRD3 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	81,929 Da
3D Structure	ModBase 3D Structure for Q91W18
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 TDRD3 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 TDRD3 sirna	RNA Interference (RNAi)
Related Product Information for TDRD3 sirna	MBS8235403 is an siRNA targeting TDRD3. Also known as TDRD3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TDRD3 expression using RNA interference
Other Notes	Small volumes of TDRD3 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 TDRD3. It may not necessarily be applicable to this product.

NCBI GI #	359279950

NCBI GeneID	219249
NCBI Accession #	NP_001240684.1
UniProt Primary Accession #	Q91W18
UniProt Secondary Accession #	Q6NZG7; Q8BZW6; Q8C1A4; E9Q2Q4
UniProt Related Accession #	Q91W18
GenBank Nucleotide #	NM_001253755.1
NCBI Official Full Name	tudor domain-containing protein 3 isoform 2
NCBI Official Synonym Full Names	tudor domain containing 3
NCBI Official Symbol	Tdrd3
NCBI Official Synonym Symbols	6720468N18; 4732418C03Rik
UniProt Protein Name	Tudor domain-containing protein 3
Protein Family	Tudor domain-containing protein
UniProt Gene Name	Tdrd3
UniProt Entry Name	TDRD3_MOUSE
NCBI Protein Information	tudor domain-containing protein 3
UniProt Comments for TDRD3	TDRD3: the Tudor domain of TDRD3 has been shown to interact with arginine-glycine-rich motifs in a methylarginine-dependent manner, and target methylated arginines physiologically. Protein type: Histone-binding; RNA-binding; Transcription, coactivator/corepressor; Translation Cellular Component: cytoplasm; nucleus Molecular Function: RNA binding; transcription coactivator activity; chromatin binding; methylated histone residue binding Biological Process: chromatin modification; mRNA processing
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