DDX56 siRNA – Probable ATP-Dependent RNA Helicase DDX56 (Mouse)

PRODUCT OVERVIEW

Product Name	DDX56, siRNA
Full Product Name	DDX56 siRNA (Mouse)
Product Gene Name	DDX56 sirna
Product Synonym Names	D11ERTD619E; NOH61; Probable ATP-dependent RNA helicase DDX56; ATP-dependent 61 kDa nucleolar RNA helicase; DEAD box protein 56
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	DDX56 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	61,212 Da
3D Structure	ModBase 3D Structure for Q9D0R4
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 DDX56 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 DDX56 sirna	RNA Interference (RNAi)
Related Product Information for DDX56 sirna	MBS8202374 is an siRNA targeting DDX56. Also known as DDX56 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit DDX56 expression using RNA interference
Other Notes	Small volumes of DDX56 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 DDX56. It may not necessarily be applicable to this product.

NCBI GI #	21312650

NCBI GeneID	52513
NCBI Accession #	NP_080814.1
UniProt Primary Accession #	Q9D0R4
UniProt Related Accession #	Q9D0R4
GenBank Nucleotide #	NM_026538.3
NCBI Official Full Name	probable ATP-dependent RNA helicase DDX56
NCBI Official Synonym Full Names	DEAD (Asp-Glu-Ala-Asp) box polypeptide 56
NCBI Official Symbol	Ddx56
NCBI Official Synonym Symbols	Noh61; D11Ertd619e; 2600001H07Rik
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX56
UniProt Synonym Protein Names	ATP-dependent 61 kDa nucleolar RNA helicase; DEAD box protein 56
Protein Family	Probable ATP-dependent RNA helicase
UniProt Gene Name	Ddx56
UniProt Synonym Gene Names	D11Ertd619e; Noh61
UniProt Entry Name	DDX56_MOUSE
NCBI Protein Information	probable ATP-dependent RNA helicase DDX56
UniProt Comments for DDX56	DDX56: May play a role in later stages of the processing of the pre-ribosomal particles leading to mature 60S ribosomal subunits. Has intrinsic ATPase activity. Belongs to the DEAD box helicase family. DDX56/DBP9 subfamily. Protein type: Nucleolus; EC 3.6.4.13; Helicase Cellular Component: membrane; nucleolus; nucleus Molecular Function: nucleic acid binding; hydrolase activity; RNA binding; nucleotide binding; helicase activity; ATP binding Biological Process: ribosome biogenesis and assembly; rRNA processing
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