RECQL5 siRNA – ATP-Dependent DNA Helicase Q5 (Mouse)

PRODUCT OVERVIEW

Product Name	RECQL5, siRNA
Full Product Name	RECQL5 siRNA (Mouse)
Product Gene Name	RECQL5 sirna
Product Synonym Names	ATP-dependent DNA helicase Q5; DNA helicase. RecQ-like type 5; RecQ5; RECQL5beta; RecQ protein-like 5
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RECQL5 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	108,246 Da
3D Structure	ModBase 3D Structure for Q8VID5
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 RECQL5 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 RECQL5 sirna	RNA Interference (RNAi)
Related Product Information for RECQL5 sirna	MBS8203194 is an siRNA targeting RECQL5. Also known as RECQL5 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RECQL5 expression using RNA interference
Other Notes	Small volumes of RECQL5 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 RECQL5. It may not necessarily be applicable to this product.

NCBI GI #	18485510

NCBI GeneID	170472
NCBI Accession #	NP_569721.1
UniProt Primary Accession #	Q8VID5
UniProt Secondary Accession #	Q8BQD7; Q8C7T6; Q8VID3
UniProt Related Accession #	Q8VID5
GenBank Nucleotide #	NM_130454.2
NCBI Official Full Name	ATP-dependent DNA helicase Q5
NCBI Official Synonym Full Names	RecQ protein-like 5
NCBI Official Symbol	Recql5
NCBI Official Synonym Symbols	RecQ5; Recq5b; Recql5b
UniProt Protein Name	ATP-dependent DNA helicase Q5
UniProt Synonym Protein Names	DNA helicase, RecQ-like type 5; RecQ5; RECQL5beta; RecQ protein-like 5
Protein Family	ATP-dependent DNA helicase
UniProt Gene Name	Recql5
UniProt Synonym Gene Names	RecQ5
UniProt Entry Name	RECQ5_MOUSE
NCBI Protein Information	ATP-dependent DNA helicase Q5
UniProt Comments for RECQL5	RECQL5: May have an important role in DNA metabolism. Interacts with TOP3A and TOP3B. Ubiquitous. Belongs to the helicase family. RecQ subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Helicase; DNA repair, damage; EC 3.6.4.12 Cellular Component: nucleoplasm; nuclear membrane; cytoplasm; nucleolus; DNA-directed RNA polymerase II, holoenzyme; nucleus Molecular Function: DNA helicase activity; nucleic acid binding; hydrolase activity; nucleotide binding; ATP-dependent helicase activity; helicase activity; ATP binding Biological Process: mitosis; cell division; DNA replication; cell cycle; DNA repair; response to DNA damage stimulus; DNA duplex unwinding; chromosome separation; DNA recombination
Research Articles on RECQL5	**1.** Recql5 has a tumor suppressor role in the gastrointestinal tract of Apc(min) mice.
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