PRSS56 siRNA – Serine Protease 56 (Mouse)

PRODUCT OVERVIEW

Product Name	PRSS56, siRNA
Full Product Name	PRSS56 siRNA (Mouse)
Product Gene Name	PRSS56 sirna
Product Synonym Names	Serine protease 56
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PRSS56 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	65,134 Da
3D Structure	ModBase 3D Structure for F2YMG0
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 PRSS56 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 PRSS56 sirna	RNA Interference (RNAi)
Related Product Information for PRSS56 sirna	MBS8218096 is an siRNA targeting PRSS56. Also known as PRSS56 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PRSS56 expression using RNA interference
Other Notes	Small volumes of PRSS56 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 PRSS56. It may not necessarily be applicable to this product.

NCBI GI #	333033849

NCBI GeneID	69453
NCBI Accession #	NP_081360.1
UniProt Primary Accession #	F2YMG0
UniProt Secondary Accession #	Q9CVU9
UniProt Related Accession #	F2YMG0
GenBank Nucleotide #	NM_027084.1
NCBI Official Full Name	serine protease 56
NCBI Official Synonym Full Names	protease, serine 56
NCBI Official Symbol	Prss56
NCBI Official Synonym Symbols	1700027L20Rik
UniProt Protein Name	Serine protease 56
Protein Family	Serine protease
UniProt Gene Name	Prss56
UniProt Entry Name	PRS56_MOUSE
NCBI Protein Information	serine protease 56
UniProt Comments for PRSS56	PRSS56: Serine protease required during eye development. Belongs to the peptidase S1 family Cellular Component: membrane; endoplasmic reticulum Molecular Function: peptidase activity; hydrolase activity; serine-type peptidase activity; serine-type endopeptidase activity; catalytic activity Biological Process: camera-type eye development; proteolysis
Research Articles on PRSS56	**1.** Transcripts of Prss56, a gene associated with angle-closure glaucoma, posterior microphthalmia and myopia, were increased in Mfrprd6 eyes by 17-fold.
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