PRSS33 siRNA – Serine Protease 33 (Human)

PRODUCT OVERVIEW

Product Name	PRSS33, siRNA
Full Product Name	PRSS33 siRNA (Human)
Product Gene Name	PRSS33 sirna
Product Synonym Names	Serine protease 33; Serine protease EOS
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PRSS33 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	29,787 Da
OMIM	613797
3D Structure	ModBase 3D Structure for Q8NF86
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 PRSS33 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 PRSS33 sirna	RNA Interference (RNAi)
Related Product Information for PRSS33 sirna	MBS8231393 is an siRNA targeting PRSS33. Also known as PRSS33 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit PRSS33 expression using RNA interference
Other Notes	Small volumes of PRSS33 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 PRSS33. It may not necessarily be applicable to this product.

NCBI GI #	117956391
NCBI GeneID	260429
NCBI Accession #	NP_690851.2
UniProt Primary Accession #	Q8NF86
UniProt Secondary Accession #	Q8N171; A6NNQ3
UniProt Related Accession #	Q8NF86
GenBank Nucleotide #	NM_152891.2
NCBI Official Full Name	serine protease 33
NCBI Official Synonym Full Names	protease, serine, 33
NCBI Official Symbol	PRSS33
NCBI Official Synonym Symbols	EOS
UniProt Protein Name	Serine protease 33
UniProt Synonym Protein Names	Serine protease EOS
Protein Family	Serine protease
UniProt Gene Name	PRSS33
UniProt Entry Name	PRS33_HUMAN
NCBI Protein Information	serine protease 33
UniProt Comments for PRSS33	PRSS33: Serine protease that has amidolytic activity, cleaving its substrates before Arg residues. Belongs to the peptidase S1 family. Protein type: Secreted, signal peptide; Protease; Secreted; EC 3.4.21.- Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: extracellular space Molecular Function: serine-type endopeptidase activity Biological Process: proteolysis
Research Articles on PRSS33	**1.** highly expressed in spleen and moderately expressed in intestine, colon, lung and brain
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