PRSS54 siRNA – Inactive Serine Protease 54 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	PRSS54, siRNA
Full Product Name	PRSS54 siRNA (Mouse)
Product Gene Name	PRSS54 sirna
Product Synonym Names	KLKBL4; Inactive serine protease 54; Plasma kallikrein-like protein 4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PRSS54 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	42,758 Da
3D Structure	ModBase 3D Structure for Q7M756
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 PRSS54 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 PRSS54 sirna	RNA Interference (RNAi)
Related Product Information for PRSS54 sirna	MBS8210320 is an siRNA targeting PRSS54. Also known as PRSS54 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PRSS54 expression using RNA interference
Other Notes	Small volumes of PRSS54 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 PRSS54. It may not necessarily be applicable to this product.

NCBI GI #	110625796

NCBI GeneID	70993
NCBI Accession #	NP_081916.1
UniProt Primary Accession #	Q7M756
UniProt Related Accession #	Q7M756
GenBank Nucleotide #	NM_027640.1
NCBI Official Full Name	inactive serine protease 54 isoform 1
NCBI Official Synonym Full Names	protease, serine 54
NCBI Official Symbol	Prss54
NCBI Official Synonym Symbols	Klkbl4; 4931432M23Rik
UniProt Protein Name	Inactive serine protease 54
UniProt Synonym Protein Names	Plasma kallikrein-like protein 4
Protein Family	Inactive serine protease
UniProt Gene Name	Prss54
UniProt Synonym Gene Names	Klkbl4
UniProt Entry Name	PRS54_MOUSE
NCBI Protein Information	inactive serine protease 54
UniProt Comments for PRSS54	KLKBL4: Belongs to the peptidase S1 family. Plasma kallikrein subfamily. Protein type: Secreted, signal peptide; Cancer Testis Antigen (CTA); Protease; Secreted Cellular Component: cytoplasm; extracellular region Molecular Function: serine-type endopeptidase activity; catalytic activity Biological Process: proteolysis
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