PRSS54 siRNA – Inactive Serine Protease 54 (Rat)

PRODUCT OVERVIEW

Product Name	PRSS54, siRNA
Full Product Name	PRSS54 siRNA (Rat)
Product Gene Name	PRSS54 sirna
Product Synonym Names	KLKBL4; Inactive serine protease 54; Plasma kallikrein-like protein 4
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PRSS54 siRNA (Rat) 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	42,921 Da
3D Structure	ModBase 3D Structure for Q6AY28
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 rat 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	MBS8235261 is an siRNA targeting PRSS54. Also known as PRSS54 siRNA (Rat). Reactive in Rat. 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 #	62078511

NCBI GeneID	291846
NCBI Accession #	NP_001013910.1
UniProt Primary Accession #	Q6AY28
UniProt Related Accession #	Q6AY28
GenBank Nucleotide #	NM_001013888.1
NCBI Official Full Name	inactive serine protease 54
NCBI Official Synonym Full Names	protease, serine, 54
NCBI Official Symbol	Prss54
NCBI Official Synonym Symbols	Klkbl4; RGD1307877
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_RAT
NCBI Protein Information	inactive serine protease 54
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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