PUSL1 siRNA – Trna Pseudouridine Synthase-Like 1 (Mouse)

PRODUCT OVERVIEW

Product Name	PUSL1, siRNA
Full Product Name	PUSL1 siRNA (Mouse)
Product Gene Name	PUSL1 sirna
Product Synonym Names	tRNA pseudouridine synthase-like 1; tRNA pseudouridylate synthase-like 1; tRNA-uridine isomerase-like 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PUSL1 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	24,111 Da
3D Structure	ModBase 3D Structure for A2ADA5
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 PUSL1 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 PUSL1 sirna	RNA Interference (RNAi)
Related Product Information for PUSL1 sirna	MBS8234828 is an siRNA targeting PUSL1. Also known as PUSL1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PUSL1 expression using RNA interference
Other Notes	Small volumes of PUSL1 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 PUSL1. It may not necessarily be applicable to this product.

NCBI GI #	241896974

NCBI GeneID	433813
NCBI Accession #	NP_001028662.1
UniProt Primary Accession #	A2ADA5
UniProt Secondary Accession #	Q3TVB3; Q3UAA3
UniProt Related Accession #	A2ADA5
GenBank Nucleotide #	NM_001033490.1
NCBI Official Full Name	tRNA pseudouridine synthase-like 1
NCBI Official Synonym Full Names	pseudouridylate synthase-like 1
NCBI Official Symbol	Pusl1
NCBI Official Synonym Symbols	D18346; AI853843; 2810021I11Rik
UniProt Protein Name	tRNA pseudouridine synthase-like 1
UniProt Synonym Protein Names	tRNA pseudouridylate synthase-like 1; tRNA-uridine isomerase-like 1
Protein Family	tRNA pseudouridine synthase
UniProt Gene Name	Pusl1
UniProt Entry Name	PUSL1_MOUSE
NCBI Protein Information	tRNA pseudouridine synthase-like 1
UniProt Comments for PUSL1	PUSL1: Belongs to the tRNA pseudouridine synthase TruA family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Isomerase; EC 5.4.99.-; RNA processing Cellular Component: intracellular membrane-bound organelle Molecular Function: beta-amyrin synthase activity; pseudouridine synthase activity; RNA binding; lupeol synthase activity; isomerase activity Biological Process: pseudouridine synthesis; tRNA processing; RNA modification
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