FSTL1 siRNA – Follistatin-Related Protein 1 (Mouse)

PRODUCT OVERVIEW

Product Name	FSTL1, siRNA
Full Product Name	FSTL1 siRNA (Mouse)
Product Gene Name	FSTL1 sirna
Product Synonym Names	FRP; FSTL; TSC36; Follistatin-related protein 1; Follistatin-like protein 1; TGF-beta-inducible protein TSC-36
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FSTL1 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	34,554 Da
3D Structure	ModBase 3D Structure for Q62356
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 FSTL1 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 FSTL1 sirna	RNA Interference (RNAi)
Related Product Information for FSTL1 sirna	MBS828564 is an siRNA targeting FSTL1. Also known as FSTL1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit FSTL1 expression using RNA interference
Other Notes	Small volumes of FSTL1 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 FSTL1. It may not necessarily be applicable to this product.

NCBI GI #	31560699

NCBI GeneID	14314
NCBI Accession #	NP_032073.2
UniProt Primary Accession #	Q62356
UniProt Secondary Accession #	Q6GTX2; Q99JI9
UniProt Related Accession #	Q62356
GenBank Nucleotide #	NM_008047.5
NCBI Official Full Name	follistatin-related protein 1
NCBI Official Synonym Full Names	follistatin-like 1
NCBI Official Symbol	Fstl1
NCBI Official Synonym Symbols	Fstl; TSC-36; AI316791; AW107808
UniProt Protein Name	Follistatin-related protein 1
UniProt Synonym Protein Names	Follistatin-like protein 1; TGF-beta-inducible protein TSC-36
Protein Family	Follistatin-related protein
UniProt Gene Name	Fstl1
UniProt Synonym Gene Names	Frp; Fstl; Tsc36
UniProt Entry Name	FSTL1_MOUSE
NCBI Protein Information	follistatin-related protein 1
UniProt Comments for FSTL1	FSTL1: May modulate the action of some growth factors on cell proliferation and differentiation. Binds heparin. Protein type: Secreted, signal peptide; Secreted Cellular Component: extracellular space; extracellular region Molecular Function: heparin binding; protein binding; calcium ion binding Biological Process: response to starvation
Research Articles on FSTL1	**1.** FSTL1 is a potent regulator of chondrocyte proliferation, differentiation and expression of extracellular matrix molecules.
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