TNNI1 siRNA – Troponin I, Slow Skeletal Muscle (Mouse)

PRODUCT OVERVIEW

Product Name	TNNI1, siRNA
Full Product Name	TNNI1 siRNA (Mouse)
Product Gene Name	TNNI1 sirna
Product Synonym Names	Troponin I. slow skeletal muscle; Troponin I. slow-twitch isoform
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TNNI1 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	21,698 Da
3D Structure	ModBase 3D Structure for Q9WUZ5
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 TNNI1 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 TNNI1 sirna	RNA Interference (RNAi)
Related Product Information for TNNI1 sirna	MBS8212078 is an siRNA targeting TNNI1. Also known as TNNI1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TNNI1 expression using RNA interference
Other Notes	Small volumes of TNNI1 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 TNNI1. It may not necessarily be applicable to this product.

NCBI GI #	162951867

NCBI GeneID	21952
NCBI Accession #	NP_001106173.1
UniProt Primary Accession #	Q9WUZ5
UniProt Related Accession #	Q9WUZ5
GenBank Nucleotide #	NM_001112702.1
NCBI Official Full Name	troponin I, slow skeletal muscle
NCBI Official Synonym Full Names	troponin I, skeletal, slow 1
NCBI Official Symbol	Tnni1
NCBI Official Synonym Symbols	ssTnI; AI747285; 2700018B22Rik
UniProt Protein Name	Troponin I, slow skeletal muscle
UniProt Synonym Protein Names	Troponin I, slow-twitch isoform
Protein Family	Troponin
UniProt Gene Name	Tnni1
UniProt Entry Name	TNNI1_MOUSE
NCBI Protein Information	troponin I, slow skeletal muscle
UniProt Comments for TNNI1	TNNI1: Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Belongs to the troponin I family. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Cellular Component: troponin complex Molecular Function: metal ion binding; actin binding Biological Process: transition between fast and slow fiber; regulation of muscle contraction; ventricular cardiac muscle morphogenesis
Research Articles on TNNI1	**1.** the up-stream domain (approximately 1,800 bp) of mouse fetal TnI gene is been cloned and characterized
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