MYH8 siRNA – Myosin-8 (Mouse)

PRODUCT OVERVIEW

Product Name	MYH8, siRNA
Full Product Name	MYH8 siRNA (Mouse)
Product Gene Name	MYH8 sirna
Product Synonym Names	MYHSP; Myosin-8; Myosin heavy chain 8; Myosin heavy chain. skeletal muscle. perinatal; MyHC-perinatal
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MYH8 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	222,708 Da
3D Structure	ModBase 3D Structure for P13542
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 MYH8 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 MYH8 sirna	RNA Interference (RNAi)
Related Product Information for MYH8 sirna	MBS8226206 is an siRNA targeting MYH8. Also known as MYH8 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MYH8 expression using RNA interference
Other Notes	Small volumes of MYH8 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 MYH8. It may not necessarily be applicable to this product.

NCBI GI #	71143152

NCBI GeneID	17885
NCBI Accession #	NP_796343.2
UniProt Primary Accession #	P13542
UniProt Secondary Accession #	Q5SX36
UniProt Related Accession #	P13542
GenBank Nucleotide #	NM_177369.3
NCBI Official Full Name	myosin-8
NCBI Official Synonym Full Names	myosin, heavy polypeptide 8, skeletal muscle, perinatal
NCBI Official Symbol	Myh8
NCBI Official Synonym Symbols	MHCp; Myhsp; Myhs-p; MyHC-pn; AI327267; 4832426G23Rik
UniProt Protein Name	Myosin-8
UniProt Synonym Protein Names	Myosin heavy chain 8; Myosin heavy chain, skeletal muscle, perinatal; MyHC-perinatal
Protein Family	Myosin
UniProt Gene Name	Myh8
UniProt Synonym Gene Names	Myhsp; MyHC-perinatal
UniProt Entry Name	MYH8_MOUSE
NCBI Protein Information	myosin-8
NCBI Summary for MYH8	This gene encodes a myosin heavy chain. The encoded protein forms a hexamer with two heavy chains, two alkali light chains, and two regulatory light chain components. This complex functions in muscle contraction. This gene is located in a cluster of related genes on chromosome 11. [provided by RefSeq, Jun 2013]
UniProt Comments for MYH8	MYH8: Muscle contraction. Defects in MYH8 are a cause of Carney complex variant (CACOV). Carney complex is a multiple neoplasia syndrome characterized by spotty skin pigmentation, cardiac and other myxomas, endocrine tumors, and psammomatous melanotic schwannomas. Familial cardiac myxomas are associated with spotty pigmentation of the skin and other phenotypes, including primary pigmented nodular adrenocortical dysplasia, extracardiac (frequently cutaneous) myxomas, schwannomas, and pituitary, thyroid, testicular, bone, ovarian, and breast tumors. Cardiac myxomas do not develop in all patients with the Carney complex, but affected patients have at least two features of the complex or one feature and a clinically significant family history. Defects in MYH8 are a cause of distal arthrogryposis type (DA7). A hereditary distal arthrogryposis characterized by an inability to open the mouth fully (trismus) and pseudocamptodactyly in which wrist dorsiflexion, but not volarflexion, produces involuntary flexion contracture of distal and proximal interphalangeal joints. Such hand and jaw contractures are caused by shortened flexor muscle-tendon units. Similar lower-limb contractures also produce foot deformity. The trismus-pseudocamptodactyly syndrome is a morbid autosomal dominant trait with variable expressivity but high penetrance. In these patients, trismus complicates dental care, feeding during infancy, and intubation for anesthesia, and the pseudocamptodactyly impairs manual dexterity, with consequent occupational and social disability. Many patients require surgical correction of contractures. Protein type: Motility/polarity/chemotaxis; Motor Cellular Component: cytoplasm; myosin complex Molecular Function: microfilament motor activity; protein binding; ATPase activity; nucleotide binding; motor activity; actin binding; ATP binding Biological Process: skeletal muscle contraction; metabolic process; muscle filament sliding
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