TSPAN3 siRNA – Tetraspanin-3 Isoform 3 (Human)

PRODUCT OVERVIEW

Product Name	TSPAN3, siRNA
Full Product Name	TSPAN3 siRNA (Human)
Product Gene Name	TSPAN3 sirna
Product Synonym Names	TM4SF8; Tetraspanin-3; Tspan-3; Tetraspanin TM4-A; Transmembrane 4 superfamily member 8
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TSPAN3 siRNA (Human) 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	21,184 Da
OMIM	613134
3D Structure	ModBase 3D Structure for O60637
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 human TSPAN3 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 TSPAN3 sirna	RNA Interference (RNAi)
Related Product Information for TSPAN3 sirna	MBS8240945 is an siRNA targeting TSPAN3. Also known as TSPAN3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TSPAN3 expression using RNA interference
Other Notes	Small volumes of TSPAN3 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 TSPAN3. It may not necessarily be applicable to this product.

NCBI GI #	270483821
NCBI GeneID	10099
NCBI Accession #	NP_001161884.1
UniProt Primary Accession #	O60637
UniProt Secondary Accession #	Q9BW22; Q9NVX9; A6NEH4; B3KQQ2; B4DP19
UniProt Related Accession #	O60637
GenBank Nucleotide #	NM_001168412.1
NCBI Official Full Name	tetraspanin-3 isoform 3
NCBI Official Synonym Full Names	tetraspanin 3
NCBI Official Symbol	TSPAN3
NCBI Official Synonym Symbols	TM4-A; TM4SF8; TSPAN-3
UniProt Protein Name	Tetraspanin-3
UniProt Synonym Protein Names	Tetraspanin TM4-A; Transmembrane 4 superfamily member 8
UniProt Gene Name	TSPAN3
UniProt Synonym Gene Names	TM4SF8; Tspan-3
UniProt Entry Name	TSN3_HUMAN
NCBI Protein Information	tetraspanin-3
NCBI Summary for TSPAN3	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The use of alternate polyadenylation sites has been found for this gene. Multiple alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Dec 2009]
UniProt Comments for TSPAN3	TSPAN3: a multi-pass membrane protein. Member of the transmembrane 4 superfamily, also known as the tetraspanin family. These proteins apparently mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This protein regulates the proliferation and migration of oligodendrocytes, a process essential for normal myelination and repair. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Motility/polarity/chemotaxis; Cell surface Chromosomal Location of Human Ortholog: 15q24.3 Cellular Component: integral to membrane
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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