TM7SF2 siRNA – Delta(14)-Sterol Reductase Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	TM7SF2, siRNA
Full Product Name	TM7SF2 siRNA (Human)
Product Gene Name	TM7SF2 sirna
Product Synonym Names	ANG1; Delta(14)-sterol reductase; Delta-14-SR; Another new gene 1 protein; C-14 sterol reductase; Putative sterol reductase SR-1; Sterol C14-reductase; Transmembrane 7 superfamily member 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TM7SF2 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	43,365 Da
OMIM	603414
3D Structure	ModBase 3D Structure for O76062
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 TM7SF2 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 TM7SF2 sirna	RNA Interference (RNAi)
Related Product Information for TM7SF2 sirna	MBS8230450 is an siRNA targeting TM7SF2. Also known as TM7SF2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TM7SF2 expression using RNA interference
Other Notes	Small volumes of TM7SF2 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 TM7SF2. It may not necessarily be applicable to this product.

NCBI GI #	469663653
NCBI GeneID	7108
NCBI Accession #	NP_001264162.1
UniProt Primary Accession #	O76062
UniProt Secondary Accession #	O95982; Q8IY06; Q96E64; Q96GZ1; A8K4H0
UniProt Related Accession #	O76062
GenBank Nucleotide #	NM_001277233.1
NCBI Official Full Name	delta(14)-sterol reductase isoform 2
NCBI Official Synonym Full Names	transmembrane 7 superfamily member 2
NCBI Official Symbol	TM7SF2
NCBI Official Synonym Symbols	ANG1; NET47; DHCR14A
UniProt Protein Name	Delta(14)-sterol reductase
UniProt Synonym Protein Names	Another new gene 1 protein; C-14 sterol reductase; Putative sterol reductase SR-1; Sterol C14-reductase; Transmembrane 7 superfamily member 2
UniProt Gene Name	TM7SF2
UniProt Synonym Gene Names	ANG1; Delta-14-SR
UniProt Entry Name	ERG24_HUMAN
NCBI Protein Information	delta(14)-sterol reductase
UniProt Comments for TM7SF2	TM7SF2: Involved in the conversion of lanosterol to cholesterol. Belongs to the ERG4/ERG24 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.3.1.70; Membrane protein, multi-pass; Endoplasmic reticulum; Membrane protein, integral; Oxidoreductase; Lipid Metabolism - steroid biosynthesis Chromosomal Location of Human Ortholog: 11q13 Cellular Component: endoplasmic reticulum membrane; integral to plasma membrane; endoplasmic reticulum; receptor complex Molecular Function: delta14-sterol reductase activity Biological Process: cholesterol biosynthetic process
Research Articles on TM7SF2	**1.** Data suggest that, besides the SRE motif, both the inverted CCAAT-box and GC-box2 are essential for full TM7SF2 promoter activation by SREBP-2.
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