SOSTDC1 siRNA – Sclerostin Domain-Containing Protein 1 (Mouse)

PRODUCT OVERVIEW

Product Name	SOSTDC1, siRNA
Full Product Name	SOSTDC1 siRNA (Mouse)
Product Gene Name	SOSTDC1 sirna
Product Synonym Names	SOSTL; USAG1; Sclerostin domain-containing protein 1; Ectodermal BMP inhibitor; Ectodin; Sclerostin-like protein; Uterine sensitization-associated gene 1 protein; USAG-1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SOSTDC1 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	23,174 Da
3D Structure	ModBase 3D Structure for Q9CQN4
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 SOSTDC1 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 SOSTDC1 sirna	RNA Interference (RNAi)
Related Product Information for SOSTDC1 sirna	MBS828459 is an siRNA targeting SOSTDC1. Also known as SOSTDC1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SOSTDC1 expression using RNA interference
Other Notes	Small volumes of SOSTDC1 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 SOSTDC1. It may not necessarily be applicable to this product.

NCBI GI #	13384674
NCBI GeneID	66042
NCBI Accession #	NP_079588.1
UniProt Primary Accession #	Q9CQN4
UniProt Secondary Accession #	Q8CF09
UniProt Related Accession #	Q9CQN4
GenBank Nucleotide #	NM_025312.3
NCBI Official Full Name	sclerostin domain-containing protein 1
NCBI Official Synonym Full Names	sclerostin domain containing 1
NCBI Official Symbol	Sostdc1
NCBI Official Synonym Symbols	Wise; Sostl; USAG-1; ectodin; 0610006G05Rik
UniProt Protein Name	Sclerostin domain-containing protein 1
UniProt Synonym Protein Names	Ectodermal BMP inhibitor; Ectodin; Sclerostin-like protein; Uterine sensitization-associated gene 1 protein; USAG-1
Protein Family	Sclerostin domain-containing protein
UniProt Gene Name	Sostdc1
UniProt Synonym Gene Names	Sostl; Usag1; Ectodin; USAG-1
UniProt Entry Name	SOSD1_MOUSE
NCBI Protein Information	sclerostin domain-containing protein 1
UniProt Comments for SOSTDC1	SOSTDC1: May be involved in the onset of endometrial receptivity for implantation/sensitization for the decidual cell reaction Enhances Wnt signaling and inhibits TGF-beta signaling. Directly antagonizes activity of BMP2, BMP4, BMP6 and BMP7 in a dose-dependent manner. Belongs to the sclerostin family. Protein type: Secreted; Secreted, signal peptide Cellular Component: extracellular space; extracellular region Molecular Function: protein binding Biological Process: hair follicle morphogenesis; Wnt receptor signaling pathway; pattern specification process; odontogenesis of dentine-containing teeth; negative regulation of cell fate commitment; negative regulation of BMP signaling pathway
Research Articles on SOSTDC1	**1.** Findings strongly suggest that Wise and Sost are key modulators of bone development through the ability of their encoded proteins to interact with Lrp5 and control the balance or levels of Wnt signaling.
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