SS18 siRNA – Protein SSXT Isoform 1 (Human)

PRODUCT OVERVIEW

Product Name	SS18, siRNA
Full Product Name	SS18 siRNA (Human)
Product Gene Name	SS18 sirna
Product Synonym Names	SSXT; SYT; Protein SSXT; Protein SYT; Synovial sarcoma translocated to X chromosome protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SS18 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	42,216 Da
OMIM	600192
3D Structure	ModBase 3D Structure for Q15532
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 SS18 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 SS18 sirna	RNA Interference (RNAi)
Related Product Information for SS18 sirna	MBS8233442 is an siRNA targeting SS18. Also known as SS18 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SS18 expression using RNA interference
Other Notes	Small volumes of SS18 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 SS18. It may not necessarily be applicable to this product.

NCBI GI #	56117846
NCBI GeneID	6760
NCBI Accession #	NP_001007560.1
UniProt Primary Accession #	Q15532
UniProt Secondary Accession #	Q16404; Q4VAX1; Q9BXC6; B0YJ95
UniProt Related Accession #	Q15532
GenBank Nucleotide #	NM_001007559.2
NCBI Official Full Name	protein SSXT isoform 1
NCBI Official Synonym Full Names	synovial sarcoma translocation, chromosome 18
NCBI Official Symbol	SS18
NCBI Official Synonym Symbols	SYT; SSXT
UniProt Protein Name	Protein SSXT
UniProt Synonym Protein Names	Protein SYT; Synovial sarcoma translocated to X chromosome protein
Protein Family	Protein
UniProt Gene Name	SS18
UniProt Synonym Gene Names	SSXT; SYT
UniProt Entry Name	SSXT_HUMAN
NCBI Protein Information	protein SSXT
UniProt Comments for SS18	SS18: Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isoform 1 and isoform 2 function in general transcriptional coactivation. A chromosomal aberration involving SS18 may be a cause of synovial sarcoma. Translocation t(X;18)(p11.2;q11.2). The translocation is specifically found in more than 80% of synovial sarcoma. The fusion products SSXT-SSX1 or SSXT-SSX2 are probably responsible for transforming activity. Heterogeneity in the position of the breakpoint can occur (low frequency). Belongs to the SS18 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Oncoprotein; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: cytoplasmic microtubule; nucleus Molecular Function: protein binding; ligand-dependent nuclear receptor transcription coactivator activity Biological Process: response to drug; transcription, DNA-dependent; ephrin receptor signaling pathway; cell morphogenesis; positive regulation of transcription from RNA polymerase II promoter; microtubule cytoskeleton organization and biogenesis
Research Articles on SS18	**1.** Case Report: bronchial biphasic synovial sarcoma with SS18 gene rearrangement.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/ss18/8233442