NSUN6 siRNA – Putative Methyltransferase NSUN6 (Human)

PRODUCT OVERVIEW

Product Name	NSUN6, siRNA
Full Product Name	NSUN6 siRNA (Human)
Product Gene Name	NSUN6 sirna
Product Synonym Names	NOPD1; Putative methyltransferase NSUN6; NOL1/NOP2/Sun and PUA domain-containing protein 1; NOL1/NOP2/Sun domain family member 6
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NSUN6 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	51,770 Da
3D Structure	ModBase 3D Structure for Q8TEA1
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 NSUN6 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 NSUN6 sirna	RNA Interference (RNAi)
Related Product Information for NSUN6 sirna	MBS8210992 is an siRNA targeting NSUN6. Also known as NSUN6 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NSUN6 expression using RNA interference
Other Notes	Small volumes of NSUN6 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 NSUN6. It may not necessarily be applicable to this product.

NCBI GI #	32698918
NCBI GeneID	221078
NCBI Accession #	NP_872349.1
UniProt Primary Accession #	Q8TEA1
UniProt Secondary Accession #	B0YJ54
UniProt Related Accession #	Q8TEA1
GenBank Nucleotide #	NM_182543.3
NCBI Official Full Name	putative methyltransferase NSUN6
NCBI Official Synonym Full Names	NOP2/Sun domain family, member 6
NCBI Official Symbol	NSUN6
NCBI Official Synonym Symbols	NOPD1; ARL5B-AS1; 4933414E04Rik
UniProt Protein Name	Putative methyltransferase NSUN6
UniProt Synonym Protein Names	NOL1/NOP2/Sun and PUA domain-containing protein 1; NOL1/NOP2/Sun domain family member 6
Protein Family	Putative methyltransferase
UniProt Gene Name	NSUN6
UniProt Synonym Gene Names	NOPD1
UniProt Entry Name	NSUN6_HUMAN
NCBI Protein Information	putative methyltransferase NSUN6
UniProt Comments for NSUN6	NSUN6: May have S-adenosyl-L-methionine-dependent methyl- transferase activity. Belongs to the methyltransferase superfamily. RsmB/NOP family. Protein type: Methyltransferase, protein arginine, predicted; EC 2.1.1.-; Methyltransferase Chromosomal Location of Human Ortholog: 10p12.31 Molecular Function: methyltransferase activity; RNA binding Biological Process: methylation
Research Articles on NSUN6	**1.** Observational study of gene-disease association. (HuGE Navigator)
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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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.

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