NSA2 siRNA – Ribosome Biogenesis Protein NSA2 Homolog Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	NSA2, siRNA
Full Product Name	NSA2 siRNA (Human)
Product Gene Name	NSA2 sirna
Product Synonym Names	TINP1; Ribosome biogenesis protein NSA2 homolog; Hairy cell leukemia protein 1; TGF-beta-inducible nuclear protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NSA2 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	30,065 Da
OMIM	612497
3D Structure	ModBase 3D Structure for O95478
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 NSA2 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 NSA2 sirna	RNA Interference (RNAi)
Related Product Information for NSA2 sirna	MBS8204979 is an siRNA targeting NSA2. Also known as NSA2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NSA2 expression using RNA interference
Other Notes	Small volumes of NSA2 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 NSA2. It may not necessarily be applicable to this product.

NCBI GI #	410651502
NCBI GeneID	10412
NCBI Accession #	NP_001258594.1
UniProt Primary Accession #	O95478
UniProt Related Accession #	O95478
GenBank Nucleotide #	NM_001271665.1
NCBI Official Full Name	ribosome biogenesis protein NSA2 homolog isoform 2
NCBI Official Synonym Full Names	NSA2 ribosome biogenesis homolog
NCBI Official Symbol	NSA2
NCBI Official Synonym Symbols	HCLG1; TINP1; CDK105; HCL-G1; HUSSY29; HUSSY-29
UniProt Protein Name	Ribosome biogenesis protein NSA2 homolog
UniProt Synonym Protein Names	Hairy cell leukemia protein 1; TGF-beta-inducible nuclear protein 1
Protein Family	Ribosome biogenesis protein
UniProt Gene Name	NSA2
UniProt Synonym Gene Names	TINP1
UniProt Entry Name	NSA2_HUMAN
NCBI Protein Information	ribosome biogenesis protein NSA2 homolog
NCBI Summary for NSA2	This gene encodes a nucleolar protein involved in cell cycle regulation and proliferation. This gene was identified based on sequence similarity to a highly conserved Saccharomyces cerevisiae gene encoding a pre-ribosomal protein, which is involved in large ribosomal subunit biogenesis. The encoded protein is found at elevated levels in diabetic nephropathy. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified. [provided by RefSeq, Nov 2012]
UniProt Comments for NSA2	TINP1: Involved in the biogenesis of the 60S ribosomal subunit. May play a part in the quality control of pre-60S particles. Belongs to the ribosomal protein S8e family. Protein type: Nucleolus; Translation Chromosomal Location of Human Ortholog: 5q13.3 Cellular Component: nucleolus; ribonucleoprotein complex; nucleus Biological Process: rRNA processing
Research Articles on NSA2	**1.** TINP1 promotes cell proliferation and significantly reduces p53 and p21 expression.
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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