

Silencer® Negative Control #2 siRNA

Store at or below –20°C.

Catalog #:	AM4637	AM4638
Amount:	40 nmol	200 nmol (5 X 40 nmol)
Appearance:	Powder	
Additional Material(s) Included:	1.75 mL Nuclease-free Water	
Storage Conditions:	Store at or below –20°C. Do not store in a frost-free freezer. (Dried oligonucleotides are shipped at ambient temperature.)	

USER INFORMATION

Product Description:	<p>Negative control siRNAs—siRNAs with sequences that do not target any gene product—are essential for determining siRNA transfection efficiency and to control for the effects of siRNA delivery. In many RNAi applications, negative control siRNAs are also critical for setting the "hit" threshold that determines whether an siRNA is considered to have a positive, negative, or neutral effect in a particular assay.</p> <p><i>Silencer</i>® Negative Control siRNAs have been designed to have no significant sequence similarity to mouse, rat, or human transcript sequences. <i>Silencer</i> Negative Control siRNAs have been tested in multiple cell lines and shown to have no significant impact on cell proliferation, apoptosis, or cell morphology.</p> <p>The sense and antisense Negative Control siRNA strands are chemically synthesized, HPLC purified, and annealed. Transfect Negative Control siRNAs using the same methodology as for your positive control or experimental siRNAs.</p>
Handling Instructions:	<p>RNA oligonucleotides are susceptible to degradation by exogenous ribonucleases introduced during handling. Wear gloves when handling this product. Use RNase-free reagents, tubes, and barrier pipette tips. Upon receipt, your siRNAs may be safely stored in a non-frost-free freezer at or below –20°C (dried oligonucleotides are shipped at ambient temperature).</p> <p>Resuspension of siRNA Briefly centrifuge the tube to ensure that the dried siRNA is at the bottom of the tube. Resuspend siRNA at a convenient concentration. For example, resuspend 40 nmol of siRNA in 800 µL of the Nuclease-free Water provided for a final concentration of 50 µM.</p> <p>Ambion provides an online calculator for suspension of dry oligonucleotides on its web site at www.ambion.com/techlib/append/oligo_dilution.html</p> <p>Once reconstituted in Nuclease-free Water, the siRNA is ready to transfect and can be used at your choice of final concentration.</p> <p>Store the resuspended siRNA at or below –20°C. Do not store in a frost-free freezer.</p>
Additional Information:	<p>For additional information on siRNA procedures and protocols, visit the Ambion resource pages at www.ambion.com/techlib/resources/RNAi</p>

RELATED PRODUCTS

Silencer® Control siRNAs

Cat #Various (see www.ambion.com/siRNA)

Validated, nontargeting siRNAs (negative controls) and siRNAs targeting genes such as GAPDH, β-actin, and GFP (positive controls).

Silencer® Pre-designed and Validated siRNAs

Cat #Various (see www.ambion.com/siRNA)

Guaranteed-to-silence siRNAs available to all human, mouse, and rat genes. Search the Ambion siRNA database (www.ambion.com/siRNA) to find siRNAs to your genes of interest.

siPORT™ NeoFX™ Transfection Agent

Cat #AM4510 and AM4511

A versatile lipid-based agent for efficient and reproducible transfection of adherent cells while subculturing, without increased cytotoxicity.

QUALITY CONTROL

Identity:	The mass of a sample of each single-stranded RNA oligonucleotide is analyzed using MALDI-TOF mass spectrometry and compared to the calculated mass.
Purity:	Analytical HPLC of a sample of the final purified single-stranded RNA oligonucleotides is used to confirm $\geq 95\%$ purity.
Annealing:	A sample of the annealed siRNA is analyzed by nondenaturing gel electrophoresis.

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

Warranty and Liability: *For research use only. Not for use in diagnostic procedures.*

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