

# Silencer® Negative Control #1 siRNA

Store at or below  $-20^{\circ}\text{C}$ .  
Do not store in a frost-free freezer.

<b>Catalog #:</b>	AM4611
<b>Amount:</b>	5 nmol
<b>Concentration:</b>	50 $\mu\text{M}$
<b>Storage Conditions:</b>	Store at or below $-20^{\circ}\text{C}$ . <b>Do not store in a frost-free freezer.</b>
<b>Storage Buffer:</b>	20 mM Potassium Acetate, 6 mM HEPES-KOH pH 7.4, 0.4 mM Magnesium Acetate

## USER INFORMATION

<b>Product Description:</b>	<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. This Negative Control siRNA is provided ready to transfect.</p> <p>Transfect Negative Control siRNAs using the same methodology as for your positive control or experimental siRNAs.</p>
<b>Handling Instructions:</b>	<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 <math>-20^{\circ}\text{C}</math>.</p>
<b>Additional Material(s) Included:</b>	<p>For additional information on siRNA procedures and protocols, visit the Ambion resource pages at <a href="http://www.ambion.com/techlib/resources/RNAi">www.ambion.com/techlib/resources/RNAi</a></p>

## RELATED PRODUCTS

### **Silencer® Control siRNAs**

Cat #Various (see [www.ambion.com/siRNA](http://www.ambion.com/siRNA))

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

### **Silencer® Pre-designed and Validated siRNAs**

Cat #Various (see [www.ambion.com/siRNA](http://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](http://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

<b>Identity:</b>	The mass of a sample of each single-stranded RNA oligonucleotide is analyzed using MALDI-TOF mass spectrometry and compared to the calculated mass.
<b>Purity:</b>	Analytical HPLC of a sample of the final purified single-stranded RNA oligonucleotides is used to confirm $\geq 95\%$ purity.
<b>Annealing:</b>	A sample of the annealed siRNA is analyzed by non-denaturing gel electrophoresis.
<b>Suitability for Tissue Culture:</b>	No bacterial growth detected in mammalian tissue culture medium after incubation for 72 h at $37^{\circ}\text{C}$ in the presence of siRNA.

---

## 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](http://www.ambion.com/techlib/msds). Alternatively, e-mail your request to [MSDS\\_Inquiry\\_CCRM@appliedbiosystems.com](mailto: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.***

Applied Biosystems is committed to delivering superior product quality and performance, supported by industry-leading global service and technical support teams. Warranty information for the accompanying consumable product is available at [www.ambion.com/info/warranty](http://www.ambion.com/info/warranty) in "Limited Warranty for Consumables," which is subject to the exclusions, conditions, exceptions, and limitations set forth under the caption "EXCLUSIONS, CONDITIONS, EXCEPTIONS, AND LIMITATIONS" in the full warranty statement. Please contact Applied Biosystems if you have any questions about our warranties or would like information about post-warranty support.

### Trademarks, Patents, and Licensing:

Ambion, Applied Biosystems, AB (Design) and *Silencer* are registered trademarks and siPORT and *NeoFX* are trademarks of Applied Biosystems or its subsidiaries in the US and/or certain other countries. All other trademarks are the sole property of their respective owners.

#### NOTICE TO PURCHASER

This product is licensed under European Patents 1144623, 1214945 and foreign equivalents from Alnylam Pharmaceuticals, Inc., Cambridge, USA and is provided only for use in academic and commercial research including in vitro and in vivo identification and validation of drug targets (but excluding the evaluation or characterization of this product as the potential basis for a siRNA-based drug) and not for any other commercial purposes. Information about licenses for commercial use (including discovery and development of siRNA-based drugs) is available from Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, MA 02142, USA.

Ambion siRNA products are manufactured under license from the Massachusetts Institute of Technology to U.S. Patent Nos. 7,056,704 and 7,078,196 and pending counterparts. The purchaser of the product may use it for research use only.

Purchase of this product gives the user rights under U.S. Patent No. 6,506,559, and its foreign equivalents, to use this product for life science research, not for use in humans or clinical diagnostics.

© 2007 Ambion, Inc. All rights reserved. 4386478A