

Thermo Scientific Dharmacon

siSTABLE Control siRNA Reagents

Product Description

- Double-stranded, chemically synthesized oligonucleotides
- Duplexes modified with siSTABLE for extended stability and enhanced performance in nuclease-rich environments
- Mass of each strand confirmed by MALDI-TOF mass spectrometry
- Duplex integrity confirmed by non-denaturing polyacrylamide gel electrophoresis

Shipping and Storage

- siSTABLE® Control siRNA reagents are shipped as dried pellets at room temperature (23°C). Under these conditions, the reagents are stable for at least four weeks.
- Upon receipt, all siRNAs should be stored at –20°C to –80°C. Under these conditions, the siRNAs are stable for at least one year.

- siRNA should be resuspended in RNase-free solutions. We recommend 1X siRNA buffer (diluted from 5X siRNA buffer – Dharmacon Products Cat. # B-002000-UB-100). RNase-free water (for short-term storage) is also appropriate for resuspension of concentrated stocks (i.e., 20–100 µM). Alternatively, an RNase-free buffer (pH 7.3–7.6) may be used such as PBS (Fisher Cat. # NC9826748)
- Upon resuspension, aliquot the siRNA into small volumes and store at –20°C to –80°C. For best results, limit freeze-thawing of each tube to no more than five events. Under these conditions, the siRNA is stable for at least 6 months.

Handling Precautions

Oligonucleotides are susceptible to enzymatic degradation by nucleases and to chemical degradation by extreme pH and temperature. We recommend wearing gloves and maintaining nuclease-free conditions when handling the oligonucleotides.

Available Components

Table 1. siSTABLE Control siRNA Reagents*

Product	Description*	Size (nmol)	Catalog #
siSTABLE Non-Targeting siRNA # 1	Negative control siRNA (chemically modified for increased stability) with at least 4 mismatches to any human, mouse, or rat gene. Microarray tested. ^ MW 13,000 g/mol	5	D-001700-01-05
		20	D-001700-01-20
siSTABLE Cyclophilin B siRNA (Human)	Positive silencing control for guaranteed silencing of Cyclophilin B mRNA in human cells (chemically modified for increased stability). Target NM_000942 MW 13,000 g/mol	5	D-001710-02-05
		20	D-001710-02-20
siSTABLE Cyclophilin B siRNA (Mouse)	Positive silencing control for guaranteed silencing of Cyclophilin B mRNA in mouse cells (chemically modified for increased stability). Target NM_011149 MW 13,000 g/mol	5	D-001710-03-05
		20	D-001710-03-20
siSTABLE GAPD siRNA (Mouse)	Positive silencing control for guaranteed silencing of GAPD mRNA in mouse cells (chemically modified for increased stability). Target NM_008084 MW 13,000 g/mol	5	D-001720-03-05
		20	D-001720-03-20

* Sequence is of the sense strand; Both strands contain UU for 3'-overhang, and antisense strand contains 5'-phosphate.

^ Non-targeting siRNA #1 reduces EGFR mRNA by ~50% (NM_005228).

Accompanying Documents

- Basic siRNA resuspension protocol

Supplemental Documents

Go to www.thermo.com/DharmaconProtocols, to find:

- Basic and cell-line specific transfection protocols

Related Products

- Thermo Scientific DharmaFECT siRNA Transfection Reagents are available in four formulations that are optimized for transfecting siRNA into a wide variety of cell lines. For more information, go to: www.thermo.com/DharmaFECT.

Publication Reference Guide

When referencing the use of siSTABLE Control siRNA Reagents, please include the following information: siSTABLE Control siRNA (type, catalog number, Thermo Fisher Scientific, Lafayette, CO)

Troubleshooting

For technical information or troubleshooting contact Thermo Scientific Genomics Tech Support:

	<i>Email</i>	<i>Phone</i>
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