

Thermo Scientific Dharmacon®

Accell™ siRNA Reagents

PLEASE READ: Accell siRNA is specially modified for use without a transfection reagent and works at a higher concentration than conventional siRNA with minimal disruption of the expression profile. When used with Accell siRNA delivery media, little to no delivery optimization is required.

Product Description

- Chemically modified for stability, target specificity, and uptake by cells without a transfection reagent
- Pooled and individual siRNAs designed to silence specific target genes
- Annealed double-stranded RNA oligonucleotides
- 3'-UU overhangs
- 5'-Phosphate on antisense strand
- Mass of each strand confirmed by MALDI-TOF mass spectrometry
- Duplex integrity confirmed by non-denaturing polyacrylamide gel electrophoresis

Product	Description and Use	Catalog Number
Accell SMARTpool® siRNA Reagent	<ul style="list-style-type: none"> • One tube containing a mixture of four siRNAs targeting one gene • Sequence information provided 	E-XXXXXXX-XX
Accell Set of 4 siRNA	<ul style="list-style-type: none"> • Individual siRNA(s) from corresponding SMARTpool reagent • Sequence information provided 	EQ-XXXXXXX-XX
Accell Upgrade Set of 4 siRNA		EU-XXXXXXX-XX
Accell Individual siRNA		A-XXXXXXX-XX
Accell siRNA Delivery media	Media optimized and required for use with delivery of Accell siRNA	B-005000-100 B-005000-500
5X siRNA buffer	For use in resuspending Accell siRNA. 300 mM KCl, 30 mM HEPES-pH 7.5, 1.0 mM MgCl ₂	B-002000-UB-100
RNase-free water	Molecular Grade RNase-free water for use in preparing 1X siRNA buffer.	B-003000-WB-100

Shipping and Storage

- siRNA reagents are shipped as dry pellets at room temperature (23°C). Under these conditions, they are stable for at least four weeks.
- Upon receipt, siRNA reagents should be stored at –20°C to –80°C. Under these conditions, they 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 9 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.

Accompanying Documents

- Accell Delivery Protocol

Supplemental Documents

Go to www.thermo.com/dharmacon, Product Information to find:

- siRNA Recommended Reading List
- SMARTpool Journal Citations

Related Products

A positive and negative control is recommended in every RNAi experiment. For more information on Accell control products, go to www.thermo.com/dharmacon, Controls for RNAi.

References

References detailing the development of the SMARTselection algorithm:

- Khvorova, A., A. Reynolds, et al. *Cell*, 2003. 115(1): p. 209-216.
- Reynolds, A., D. Leake, et al. *Nature Biotechnology*, 2004. 22(3): p. 326-330.

Publication Reference Guide

When referencing the use of Dharmacon siRNA reagents, please include the following information: product name (Accell SMARTpool or siRNA) catalog number, Thermo Fisher Scientific, Lafayette, CO.

Contact Information

For technical questions regarding the use of siRNA reagents, please contact Dharmacon Products Technical Support at:

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In Other Countries

Please contact your appropriate

distributor as listed on

www.thermo.com/dharmacondistributors

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