

# Dharmacon<sup>TM</sup> Accell<sup>TM</sup> 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

Product	Description	Cat. #
Accell SMARTpool <sup>TM</sup> siRNA Reagent	<ul style="list-style-type: none"> <li>• One tube containing a mixture of four siRNAs targeting one gene</li> <li>• Sequence information provided</li> </ul>	E-XXXXXX-XX
Accell Set of 4 siRNA Accell Upgrade Set of 4 siRNA Accell Individual siRNA	<ul style="list-style-type: none"> <li>• Individual siRNA(s) from corresponding SMARTpool reagent.</li> <li>• Sequence information provided</li> </ul>	EQ-XXXXXX-XX EU-XXXXXX-XX A-XXXXXX-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 <sub>2</sub>	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—Cat. #B-002000-UB-100). RNase-free water (for short-term storage) is also appropriate for resuspension of concentrated stocks (20–100 μM). Alternatively, an RNase-free buffer (pH 7.3–7.6) may be used such as PBS.
- 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 nine 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

## Knockdown guarantee

We guarantee at least 75% silencing (measured by qPCR) by the Accell SMARTpool and three of the Set of 4 individual siRNAs targeting your gene of interest. To learn about this guarantee click [here](#).

## Supplemental documents

Click [here](#) to find additional Accell siRNA resources:

- Application notes
- Protocols
- Recommended Reading lists
- Accell siRNA published citations

## Related products

A positive and negative control is recommended in every RNAi experiment.

For more information on Accell control products, visit

<https://dharmacon.horizondiscovery.com/rnai/controls/sirna/acell/#overview>

## References

References detailing the development of the SMARTselection algorithm:

1. Khvorova, A., A. Reynolds, *et al.* *Cell*, 2003. **115**(1): p. 209–216.
2. 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 brand name (siGENOME, ON-TARGETplus, Accell, Lincode, or custom) product format (SMARTpool or siRNA), Dharmacon catalog number, Horizon Discovery (Dharmacon), Lafayette, CO.

Each Accell siRNA product is covered by one or more of the following patents: US8252755, US8501706, US8188060 and US8415466

## If you have any questions, contact

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