

Dharmacon™ siRNA Libraries

Product Description:

- Pooled and individual siRNAs designed to silence specific target genes
- Dharmacon™ ON-TARGET^{plus}™ and Lincode™ siRNA reagents are modified with a patented chemical modification to enhance target specificity and reduce off-target effects
- Dharmacon™ Accell™ reagents are chemically modified for stability, target specificity, and uptake by cells without a transfection reagent
- Sequence information provided with all products
- 5'-Phosphate on antisense strand
- Mass of each strand confirmed by ESI-MS (electrospray ionization mass spectrometry)

Product	Description	Cat. #
siGENOME™ SMARTpool™ siRNA Library ON-TARGET ^{plus} SMARTpool siRNA Library Accell SMARTpool™ siRNA Library Lincode SMARTpool siRNA Library	<ul style="list-style-type: none"> • Each well contains a mixture of four siRNAs targeting one gene • Sequence information provided 	G-0XXXXX-XX G-1XXXXX-XX G-2XXXXX-XX G-3XXXXX-XX
siGENOME Set of 4 siRNA Library ON-TARGET ^{plus} Set of 4 siRNA Library Accell Set of 4 siRNA Library Lincode Set of 4 siRNA Library	<ul style="list-style-type: none"> • Four individual siRNAs from corresponding SMARTpool reagent • Sequence information provided 	GU-0XXXXX-XX GU-1XXXXX-XX GU-2XXXXX-XX GU-3XXXXX-XX
5x siRNA Buffer	<ul style="list-style-type: none"> • Recommended for the resuspension of siRNA • 300 mM KCl, 30 mM HEPES-pH 7.5, 1.0 mM MgCl₂ 	B-002000-UB-100

USB drive with detailed plate map information provided with all products

Functional Guarantee:

Each siGENOME and ON-TARGET^{plus} SMARTpool reagent or 3 of 4 individuals is guaranteed to silence target gene expression at the mRNA level by at least 75% when used under optimized transfection and detection conditions. Accell SMARTpool reagents typically silence target gene expression by > 70%, but will depend on efficiency of delivery, which is cell-type dependant.

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, the siRNA 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 Cat. #B-002000-UB-100). For short term storage, RNase-free water (Cat # B-003000-WB-100) 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 (Dharmacon 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 one year.

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.

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Supplemental Documents:

- Delivery protocol for Accell siRNA reagents dharmacon.gelifesciences.com/uploadedFiles/Resources/accell-delivery-protocol.pdf
- Detailed recommendations for resuspension and handling of siRNA in multi-well plates dharmacon.gelifesciences.com/uploadedfiles/resources/dharmacon-sirna-libraries-guidelines.pdf

Recommended Experimental Controls:

We recommend including a positive and negative control, such as siGENOME, ON-TARGET^{plus}, and Accell RNAi Control reagents, in every RNAi experiment. For more information, go to gelifesciences.com/dharmacon/rnaicontrols.

Publication Reference Guide:

When referencing the use of Dharmacon siRNA Libraries, please include the following information: siGENOME siRNA Library, ON-TARGET^{plus} siRNA Library, or Accell siRNA Library (specific gene collection, catalog number, GE Healthcare Dharmacon, Inc., Lafayette, CO).

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

ON-TARGET^{plus} is covered by patent: US7595387.



Orders can be placed at:
gelifesciences.com/dharmacon

Customer Support: cs.dharmacon@ge.com
Technical Support: ts.dharmacon@ge.com or
1.800.235.9880; 303.604.9499 if you have any questions.