

Control siRNA-A: sc-37007

BACKGROUND

RNA-mediated interference, a gene-silencing method utilized by most eukaryotes for expression regulation and pathogen defense, provides an extremely effective research tool. Santa Cruz Biotechnology, Inc.'s siRNA Gene Silencers facilitate biological studies by selectively inhibiting expression of target proteins.

PRODUCT

Control siRNA-A is a non-targeting 20-25 nt siRNA designed as a negative control. Each vial contains lyophilized siRNA sufficient for 66 μ l of 10 μ M solution when resuspended as directed below. Each vial contains sufficient product for 10-20 transfections. See table below for additional fluorescein conjugated and non-conjugated siRNA controls.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant; Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNases and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 66 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 66 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Control siRNA-A is recommended as a negative control for evaluating RNAi off-target effects, and in order to verify the accuracy of gene specific siRNA-dependent RNAi.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μ M in 66 μ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SELECT PRODUCT CITATIONS

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