

Control siRNA (Fluorescein Conjugate)-A: sc-36869

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. Fluorescein is a light reactive dye for use in visual fluorescent microscopy. Fluorescein has an absorption maximum at 490 nm and emission maximum of 514 nm. Fluorescein has a molecular mass of 332.32 g/mol, and it can be synthesized from phthalic anhydride and resorcinol in the presence of zinc chloride, or it can be prepared using methanesulfonic acid as the catalyst.

PRODUCT

Control siRNA (Fluorescein Conjugate)-A is a scrambled nonspecific 19-25 nt siRNA designed to measure transfection efficiency. Each vial contains 0.66 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended in 66 μ l. Suitable for 10-20 transfections.

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 FITC-siRNA duplex in 66 μ l of the RNase-free water provided. Resuspension of the FITC-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 (Fluorescein Conjugate)-A is recommended for measuring transfection efficiency of cationic lipid based transfection reagents in cells, in order to determine the most suitable transfection reagent to utilize for RNAi studies.

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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