Rsf-1 siRNA (m): sc-72262



The Power to Question

BACKGROUND

Remodeling and spacing factor 1 (Rsf-1) is a member of the chromatin-remodeling complex family of proteins that regulate gene expression and cell growth. Rsf-1 is a nuclear protein that acts as a histone chaperone and binds to another member of the chromatin-remodeling complex, hSNF2H. Together, this protein duplex regulates RNA transcription and DNA replication by both correctly spacing nucleosome arrays and by mobilizing nucleosomes when chromatin remodeling occurs. In reponse to hepatitis B infection, Rsf-1 can bind to the viral transcription activator pX, which then coactivates the transcription factor NF κ B, thus supporting the life cycle of the viral genome. Additionally, Rsf-1 is thought to be a potent oncogene, with elevated expression observed in ovarian carcinomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rsf1 (mouse) mapping to 7 E2.

PRODUCT

Rsf-1 siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Rsf-1 shRNA Plasmid (m): sc-72262-SH and Rsf-1 shRNA (m) Lentiviral Particles: sc-72262-V as alternate gene silencing products.

For independent verification of Rsf-1 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-72262A, sc-72262B and sc-72262C.

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 330 μ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 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

Rsf-1 siRNA (m) is recommended for the inhibition of Rsf-1 expression in mouse cells.

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 µM in 66 µl. 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.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Rsf-1 gene expression knockdown using RT-PCR Primer: Rsf-1 (m)-PR: sc-72262-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

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

PROTOCOLS

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

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