



SNURF siRNA (m): sc-153662

BACKGROUND

SNURF (SNRPN upstream reading frame protein) is a 71 amino acid nuclear protein that is produced along with Sm N (Small nuclear ribonucleoprotein-associated protein N) from a bicistronic transcript. While polycistronic transcripts are common in prokaryotes, they are rare in eukaryotes. The SNURF and Sm N genes are located within a region of paternal human chromosome 15 that is associated with Prader-Willi syndrome, a rare genetic disorder that is characterized by short stature, behavioral issues, hypotonia, hypogonadism, obesity and mild mental retardation. The SNURF-Sm N transcript is translated in normal tissues and cell lines, but is not translated in individuals with Prader-Willi syndrome. SNURF is expressed in skeletal muscle, brain, lung, kidney, liver, heart, pancreas and lymphoblasts.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Snurf* (mouse) mapping to 7 C.

PRODUCT

SNURF siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see SNURF shRNA Plasmid (m): sc-153662-SH and SNURF shRNA (m) Lentiviral Particles: sc-153662-V as alternate gene silencing products.

RESEARCH USE

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

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

SNURF siRNA (m) is recommended for the inhibition of SNURF 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 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.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor SNURF gene expression knockdown using RT-PCR Primer: SNURF (m)-PR: sc-153662-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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