



Trp53i13 siRNA (m): sc-154690

BACKGROUND

Trp53i13 (tumor protein p53-inducible protein 13), also known as Tp53i13, is a 385 amino acid cytoplasmic and single-pass type I membrane protein of mouse origin. When overexpressed, Trp53i13 acts to inhibit tumor cell growth. The human homolog for this protein is DSCP1 (damage-stimulated cytoplasmic protein 1), also known as TP53i13 (tumor protein p53-inducible protein 13). DSCP1 is a 393 amino acid protein that may act as a tumor suppressor, and is up-regulated by genotoxic stresses of adriamycin and/or UV irradiation in a p53-dependent manner. The genes that encode DSCP1 and Trp53i13 map to human chromosome 17q11.2 and mouse chromosome 11 B5, respectively. Consisting of approximately 122 million bases, mouse chromosome 11 houses more than 2,000 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trp53i13 (mouse) mapping to 11 B5.

PRODUCT

Trp53i13 siRNA (m) is a pool of 2 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Trp53i13 shRNA Plasmid (m): sc-154690-SH and Trp53i13 shRNA (m) Lentiviral Particles: sc-154690-V as alternate gene silencing products.

For independent verification of Trp53i13 (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-154690A and sc-154690B.

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

Trp53i13 siRNA (m) is recommended for the inhibition of Trp53i13 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 Trp53i13 gene expression knockdown using RT-PCR Primer: Trp53i13 (m)-PR: sc-154690-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.