

TCP10L siRNA (h): sc-91398

BACKGROUND

TCP10L (TCP10-like), also known as PRED77 or TCP10A-2 (T-complex protein 10A-2), is a 215 amino acid protein that contains a 25 amino acid leucine zipper motif and belongs to the TCP10 family. Localized to the nucleus and expressed specifically in testis and liver, TCP10L is thought to function as a transcriptional repressor that, through its leucine zipper domain, inhibits the expression of a variety of reporter genes. Additionally, TCP10L interacts with proteins such as Mad 4 and ZIP-kinase (also known as DAPK-3) and, through these interactions, may mediate both spermatogenesis and the level of differentiation in liver cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TCP10L (human) mapping to 21q22.11.

PRODUCT

TCP10L siRNA (h) 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 TCP10L shRNA Plasmid (h): sc-91398-SH and TCP10L shRNA (h) Lentiviral Particles: sc-91398-V as alternate gene silencing products.

For independent verification of TCP10L (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-91398A and sc-91398B.

PROTOCOLS

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

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

TCP10L siRNA (h) is recommended for the inhibition of TCP10L expression in human 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 TCP10L gene expression knockdown using RT-PCR Primer: TCP10L (h)-PR: sc-91398-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.