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SOHLH2 siRNA (m): sc-153681

BACKGROUND

SOHLH2 (spermatogenesis and oogenesis specific basic helix-loop-helix 2), also known as TEB1, is a 425 amino acid nuclear protein that contains one basic helix-loop-helix (bHLH) domain through which it may function as a transcription factor during oogenesis and spermatogenesis. SOHLH2 exists as two alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 13q13.3. Chromosome 13 houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

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CHROMOSOMAL LOCATION

Genetic locus: *Sohlh2* (mouse) mapping to 3 C.

PROTOCOLS

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

PRODUCT

SOHLH2 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 SOHLH2 shRNA Plasmid (m): sc-153681-SH and SOHLH2 shRNA (m) Lentiviral Particles: sc-153681-V as alternate gene silencing products.

For independent verification of SOHLH2 (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-153681A, sc-153681B and sc-153681C.

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 µl of the RNase-free water provided. Resuspension of the siRNA duplex in 330 µl of RNase-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

SOHLH2 siRNA (m) is recommended for the inhibition of SOHLH2 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 SOHLH2 gene expression knockdown using RT-PCR Primer: SOHLH2 (m)-PR: sc-153681-PR (20 µl). 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.