SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF383 siRNA (h): sc-97444

BACKGROUND

ZNF383 (zinc finger protein 383), also known as HSD17, is a 475 amino acid nuclear and cytoplasmic protein that may function as a transcriptional repressor, suppressing transcriptional activities mediated by MAPK signaling pathways. Containing 11 C_2H_2-type zinc fingers and one KRAB domain, ZNF383 belongs to the Krüppel C_2H_2-type zinc-finger protein family. ZNF383 is expressed in heart, placenta, liver and pancreas, with highest levels of expression in skeletal muscle. The gene that encodes ZNF383 consists of more than 17,000 bases and maps to human chromosome 19q13.12. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF383 (human) mapping to 19q13.12.

PRODUCT

ZNF383 siRNA (h) 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 ZNF383 shRNA Plasmid (h): sc-97444-SH and ZNF383 shRNA (h) Lentiviral Particles: sc-97444-V as alternate gene silencing products.

For independent verification of ZNF383 (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-97444A, sc-97444B and sc-97444C.

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

ZNF383 siRNA (h) is recommended for the inhibition of ZNF383 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 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 ZNF383 gene expression knockdown using RT-PCR Primer: ZNF383 (h)-PR: sc-97444-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.

PROTOCOLS

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