SANTA CRUZ BIOTECHNOLOGY, INC.

# ZNF469 siRNA (h): sc-93171

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the Krüppel $C_2H_2$-type zinc-finger protein family, ZNF469 (zinc finger protein 469) is a 469 amino acid nuclear protein that contains five $C_2H_2$-type zinc fingers. ZNF469 is expressed in cornea, sclera, skin fibroblasts and striated muscle. Deleterious mutations in the gene encoding zinc finger protein 469, are the cause of Ehlers-Danlos syndrome type 6B (EDS6B), also known as brittle cornea syndrome (BCS) or fragilitas oculi with joint hyperextensibility.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: ZNF469 (human) mapping to 16q24.2.

## PROTOCOLS

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

## PRODUCT

ZNF469 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 ZNF469 shRNA Plasmid (h): sc-93171-SH and ZNF469 shRNA (h) Lentiviral Particles: sc-93171-V as alternate gene silencing products.

For independent verification of ZNF469 (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-93171A, sc-93171B and sc-93171C.

## 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

ZNF469 siRNA (h) is recommended for the inhibition of ZNF469 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 ZNF469 gene expression knockdown using RT-PCR Primer: ZNF469 (h)-PR: sc-93171-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.