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SANTA CRUZ BIOTECHNOLOGY, INC.

SH3YL1 siRNA (m): sc-153443

BACKGROUND

SH3YL1 (SH3 domain-containing YSC84-like protein 1), alternately known as RAY, is a 342 amino acid protein that plays a role in hair follicle formation. Expressed at high levels during meiosis, SH3YL1 is found in stomach, kidney, colon, small intestine and skin (where it localizes to the hair shaft, bulb and outer root sheath). SH3YL1 expression is highest during mid and late anagen phases of the hair-growth cycle and is found at lower levels during the catagen, telogen and early anagen phases. SH3YL1 contains one SH (Scr homology) 3 domain, belongs to the SH3YL1 family and interacts with SH3D19. Five SH3YL1 isoforms are produced as a result of alternative splicing events, and the gene encoding SH3YL1 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin icthyosis, Sitosterolemia and Alström syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: Sh3yl1 (mouse) mapping to 12 A2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

SH3YL1 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 SH3YL1 shRNA Plasmid (m): sc-153443-SH and SH3YL1 shRNA (m) Lentiviral Particles: sc-153443-V as alternate gene silencing products.

For independent verification of SH3YL1 (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-153443A, sc-153443B and sc-153443C.

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

SH3YL1 siRNA (m) is recommended for the inhibition of SH3YL1 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 SH3YL1 gene expression knockdown using RT-PCR Primer: SH3YL1 (m)-PR: sc-153443-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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