SANTA CRUZ BIOTECHNOLOGY, INC.

Prss59 serine protease siRNA (m): sc-108485

BACKGROUND

Santa Cruz Biotechnology now offers siRNA and shRNA (plasmid and lentiviral) gene silencers targeted to all (100%) known human and mouse genes. siRNAs are provided as pools of 3 target specific 19-25 nt siRNAs designed to knock down expression of specific gene of interest. Each vial contains 3.3 nmol of lyophilized siRNA and is sufficient for 50 - 100 transfections. For independent verification of gene silencing results, we also will provide, upon request, individual siRNA duplex components, each containing 3.3 nmol of lyophilized siRNA. shRNA Plasmid DNA Gene Silencers are provided as pools of three to five lentiviral vector plasmids each encoding target-specific 19-25 nt (plus hairpin) shRNA (sequences correspond to our well-established existing product line of siRNA gene silencers). shRNA Plasmids are provided as 20 µg transfection-ready plasmid DNA for either transient or stable (puromycin-selection) target specific gene silencing. shRNA Lentiviral Particles are provided as pools of three to five expression constructs each encoding target-specific 19-25 nt (plus hairpin loop) shRNA and are provided as 200 µl transduction-ready viral particles for gene silencing in mammalian cells (human or mouse). Suitable control antibodies and RT-PCR primers are available for monitoring gene expression knockdown.

CHROMOSOMAL LOCATION

Genetic locus: 1700074P13Rik (mouse) mapping to 6 B1.

PRODUCT

Prss59 serine protease 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 Prss59 serine protease shRNA Plasmid (m): sc-108485-SH and Prss59 serine protease shRNA (m) Lentiviral Particles: sc-108485-V as alternate gene silencing products.

For independent verification of Prss59 serine protease (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-108485A, sc-108485B and sc-108485C.

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

Prss59 serine protease siRNA (m) is recommended for the inhibition of Prss59 serine protease expression in mouse cells.

RESEARCH USE

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

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 contains 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 Prss59 serine protease gene expression knockdown using RT-PCR Primer: Prss59 serine protease (m)-PR: sc-108485-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.