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MUP1 siRNA (m): sc-149712

BACKGROUND

The major urinary proteins (MUPs) represent a family of androgen-regulated murine proteins that are synthesized in the liver, secreted into the bloodstream and excreted into the urine. MUP1 (major urinary protein 1), also known as Mup7, Up-1 or Ltn-1, is a 180 amino acid secreted murine protein that belongs to the calycin superfamily. Excreted at high levels in the urine of adult male mice, MUP1 functions to bind pheromones that are released from drying urine, thereby activating the pheromones and affecting the sexual behavior of females. Additionally, MUP1, along with other MUP proteins, may mediate male-male aggression through the accessory olfactory neural pathway.

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CHROMOSOMAL LOCATION

Genetic locus: Mup1 (mouse) mapping to 4 B3.

PROTOCOLS

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

PRODUCT

MUP1 siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see MUP1 shRNA Plasmid (m): sc-149712-SH and MUP1 shRNA (m) Lentiviral Particles: sc-149712-V as alternate gene silencing products.

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

APPLICATIONS

MUP1 siRNA (m) is recommended for the inhibition of MUP1 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 μ M in 66 μ l. 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 MUP1 gene expression knockdown using RT-PCR Primer: MUP1 (m)-PR: sc-149712-PR (20 μ l). 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.