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Jade-1 siRNA (m): sc-146315

BACKGROUND

Jade-1, also known as PHF17 (PHD finger protein 17), is an 842 amino acid protein that localizes to both the cytoplasm and the nucleus and contains two PHD-type zinc fingers. Expressed at high levels in kidney tissue and also present in heart, pancreas and liver, Jade-1 functions as a transcriptional coactivator that, via its PHD zinc fingers, promotes the TIP30-dependent acetylation of Histone H4. Additionally, Jade-1 is thought to promote apoptosis and is down-regulated in renal carcinoma cells, suggesting a possible role in tumor suppression. Three isoforms of Jade-1, two of which are designated JADE1L and JADE1S, are produced via alternative splicing events. The gene encoding Jade-1 maps to human chromosome 4q28.2, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes.

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CHROMOSOMAL LOCATION

Genetic locus: Jade1 (mouse) mapping to 3 B.

PRODUCT

Jade-1 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 Jade-1 shRNA Plasmid (m): sc-146315-SH and Jade-1 shRNA (m) Lentiviral Particles: sc-146315-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

Jade-1 siRNA (m) is recommended for the inhibition of Jade-1 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 Jade-1 gene expression knockdown using RT-PCR Primer: Jade-1 (m)-PR: sc-146315-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.

PROTOCOLS

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