

Oat5 siRNA (m): sc-150152

BACKGROUND

Oat5, also known as solute carrier family 22 member 19 (Slc22a19), or solute carrier family 22 member 9 (Slc22a9), is a 551 amino acid member of the organic cation transporter family of proteins. Members of the Slc22 family primarily mediate anion transport and are expressed mainly in liver and kidney. Oat5 has been shown to transport certain organic anions and other members of the Slc22 family. However, fewer numbers of substrates have been identified for Oat5, suggesting that it may have greater specificity than the other members of the family. The gene encoding Oat5 maps to mouse chromosome 19 A.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Slc22a19 (mouse) mapping to 19 A.

PRODUCT

Oat5 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Oat5 shRNA Plasmid (m): sc-150152-SH and Oat5 shRNA (m) Lentiviral Particles: sc-150152-V as alternate gene silencing products.

For independent verification of Oat5 (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-150152A, sc-150152B and sc-150152C.

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

Oat5 siRNA (m) is recommended for the inhibition of Oat5 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 Oat5 gene expression knockdown using RT-PCR Primer: Oat5 (m)-PR: sc-150152-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.