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LEREPO4 siRNA (m): sc-146711

BACKGROUND

LEREPO4 (likely ortholog of mouse immediate early response erythropoietin 4), also known as DFRP1 (DRG family-regulatory protein 1), ZC3H15 (zinc finger CCCH domain-containing protein 15) or HT010, is a 426 amino acid cytoplasmic and nuclear protein that interacts with DRG1 and prevents its proteolytic degradation. A member of the ZC3H15/TMA46 family, LEREPO4 contains two C3H1-type zinc fingers and is encoded by a gene that maps to human chromosome 2q32.1. Chromosome 2 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 ichthyosis, sitosterolemia and Alström syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: Zc3h15 (mouse) mapping to 2 D.

PROTOCOLS

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

PRODUCT

LEREPO4 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 LEREPO4 shRNA Plasmid (m): sc-146711-SH and LEREPO4 shRNA (m) Lentiviral Particles: sc-146711-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

LEREPO4 siRNA (m) is recommended for the inhibition of LEREPO4 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 LEREPO4 gene expression knockdown using RT-PCR Primer: LEREPO4 (m)-PR: sc-146711-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.