SANTA CRUZ BIOTECHNOLOGY, INC.

Lekr1 siRNA (m): sc-143906

BACKGROUND

LEKR1 (leucine, glutamate and lysine rich 1) is a 692 amino acid protein that is encoded by a gene that maps to human chromosome 3q25.31. Chromosome 3 houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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4. Braga, E.A., et al. 2003. New tumor suppressor genes in hot spots of human chromosome 3: new methods of identification]. Mol. Biol. 37: 194-211.
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CHROMOSOMAL LOCATION

Genetic locus: Lekr1 (mouse) mapping to 3 E1.

PRODUCT

Lekr1 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Lekr1 shRNA Plasmid (m): sc-143906-SH and Lekr1 shRNA (m) Lentiviral Particles: sc-143906-V as alternate gene silencing products.

PROTOCOLS

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

Lekr1 siRNA (m) is recommended for the inhibition of Lekr1 expression in mouse cells.

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RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Lekr1 gene expression knockdown using RT-PCR Primer: Lekr1 (m)-PR: sc-143906-PR (20 µl). 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.