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FKBP15 siRNA (m): sc-145190

BACKGROUND

Immunophilins are a highly conserved family of *cis-trans* peptidyl-prolyl isomerases which bind to and mediate the effects of immunosuppressive drugs such as cyclosporin, FK506 and Rapamycin. FKBP15, also known as FK506-binding protein 15, FK506-binding protein 133 kDa, FKBP133 or KIAA0674, is a 1,219 amino acid protein that localizes to cytoplasm, cell projections, axons and neuronal growth cones. FKBP15 likely regulates cytoskeletal organization of neuronal growth cones and has been found in the developing nervous system, predominantly in embryonic cerebral cortex, peripheral ganglia and hippocampus. Although FKBP15 contains one PPlase FKBP-type domain and is a member of the FKBP-type PPlase family, FKBP15 is inactive in terms of enzymatic, FK506-binding and PPlase activity. Three isoforms of FKBP15 exist due to alternative splicing events.

REFERENCES

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2. Adams, B., Musiyenko, A., Kumar, R. and Barik, S. 2005. A novel class of dual-family immunophilins. *J. Biol. Chem.* 280: 24308-24314.
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4. Kang, C.B., Hong, Y., Dhe-Paganon, S. and Yoon, H.S. 2008. FKBP family proteins: immunophilins with versatile biological functions. *Neurosignals* 16: 318-325.
5. Kozany, C., März, A., Kress, C. and Hausch, F. 2009. Fluorescent probes to characterise FK506-binding proteins. *Chembiochem* 10: 1402-1410.

CHROMOSOMAL LOCATION

Genetic locus: *Fkbp15* (mouse) mapping to 4 B3.

PRODUCT

FKBP15 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 FKBP15 shRNA Plasmid (m): sc-145190-SH and FKBP15 shRNA (m) Lentiviral Particles: sc-145190-V as alternate gene silencing products.

For independent verification of FKBP15 (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-145190A, sc-145190B and sc-145190C.

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 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

FKBP15 siRNA (m) is recommended for the inhibition of FKBP15 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 FKBP15 gene expression knockdown using RT-PCR Primer: FKBP15 (m)-PR: sc-145190-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.