

DPRP siRNA (m): sc-143162

BACKGROUND

DPRP, decidual/trophoblast prolactin-related protein, is a 239 amino acid protein with two potential isoforms belonging to the somatotropin hormone family. DPRP is a heparin-binding cytokine, which is strongly expressed in uterine decidua. Two ovarian hormones, 17 β -estradiol and progesterone, induce morphological changes and expression of mRNA for prolactin and the decidual/trophoblastic prolactin-related protein (DPRP) in cultured mouse endometrial stromal cells. In knockout mouse studies, DPRP deficiency interfered with pregnancy-dependent adaptations to hypoxia resulting in pregnancy failure. DPRP, gene symbol Prl8a2, is conserved in rat. The mouse DPRP gene maps to chromosome 13 A3.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Prl8a2 (mouse) mapping to 13 A3.1.

PRODUCT

DPRP 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 DPRP shRNA Plasmid (m): sc-143162-SH and DPRP shRNA (m) Lentiviral Particles: sc-143162-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 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

DPRP siRNA (m) is recommended for the inhibition of DPRP 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 DPRP gene expression knockdown using RT-PCR Primer: DPRP (m)-PR: sc-143162-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.