

HN1 siRNA (m): sc-146057

BACKGROUND

Hematological and neurological expressed 1 protein (HN1), also known as androgen-regulated protein 2 (ARM2), is a 154 amino acid member of the HN1 family. HN1 has been proposed to play a role in embryo development, specifically hemopoietic cell and neurological development. Localized to the nucleus, HN1 is expressed in many fetal and adult tissues, with highest levels of expression in brain, colon, prostate, testis, thymus, skeletal muscle, peripheral blood cells and placenta. HN1 has been identified to have processed pseudo-genes in the mouse, rat and human genomes, suggesting that HN1 and its pseudogenes represent a novel gene family. Three isoforms of HN1 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Hn1 (mouse) mapping to 11 E2.

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.

PRODUCT

HN1 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 HN1 shRNA Plasmid (m): sc-146057-SH and HN1 shRNA (m) Lentiviral Particles: sc-146057-V as alternate gene silencing products.

For independent verification of HN1 (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-146057A, sc-146057B and sc-146057C.

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

HN1 siRNA (m) is recommended for the inhibition of HN1 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 HN1 gene expression knockdown using RT-PCR Primer: HN1 (m)-PR: sc-146057-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.