

NAIP7 siRNA (m): sc-149809

BACKGROUND

NAIP (for neuronal apoptosis inhibitory protein) is a protein that inhibits apoptosis of neurons and other cell types. The gene encoding NAIP is often mutated in severe cases of spinal muscular atrophy, a disease characterized by motor neuron degeneration. Many NAIP mRNA transcripts are expressed in macrophage-rich tissues, such as spleen, lung and liver, and are abundant in primary macrophages. NAIP expression is increased after phagocytic events and during infection with *L. pneumophila*. NAIP7 (neuronal apoptosis inhibitory protein 7), also known as Birc1g (baculoviral IAP repeat-containing protein 1g), is a 1,402 amino acid protein that contains one NACHT domain and three BIR repeats.

REFERENCES

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5. Yaraghi, Z., Korneluk, R.G. and MacKenzie, A. 1998. Cloning and characterization of the multiple murine homologues of NAIP (neuronal apoptosis inhibitory protein). *Genomics* 51: 107-113.
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CHROMOSOMAL LOCATION

Genetic locus: Naip7 (mouse) mapping to 13 D1.

PRODUCT

NAIP7 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 NAIP7 shRNA Plasmid (m): sc-149809-SH and NAIP7 shRNA (m) Lentiviral Particles: sc-149809-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

NAIP7 siRNA (m) is recommended for the inhibition of NAIP7 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 NAIP7 gene expression knockdown using RT-PCR Primer: NAIP7 (m)-PR: sc-149809-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.

PROTOCOLS

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