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IFN- κ siRNA (m): sc-155908

BACKGROUND

Type I interferons (IFNs) include IFN- α , IFN- β , IFN- γ , IFN- δ , IFN- ω and IFN- κ . These cytokines induce potent anti viral activity. IFN- α and - β exert a variety of other biological effects, including antitumor and immuno modulatory activities. IFN- ω is a component of natural mixtures of IFN species produced by virus-induced leukocytes or Burkitt's lymphoma cells. IFN- κ is selectively expressed in epidermal keratinocytes. IFN- κ is upregulated in re-sponse to IFN- γ , IFN- β viral infection and double-stranded RNA. IFN- κ may play a role in regulating immune cell function. In both monocytes and dendritic cells, IFN- κ induction stimulates the release of several cytokines. The gene encoding human IFN- κ maps to the short arm of chromosome 9p21.2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ifnk (mouse) mapping to 4 A5.

PRODUCT

IFN- κ siRNA (m) is a pool of 2 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 IFN- κ shRNA Plasmid (m): sc-155908-SH and IFN- κ shRNA (m) Lentiviral Particles: sc-155908-V as alternate gene silencing products.

For independent verification of IFN- κ (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-155908A and sc-155908B.

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

IFN- κ siRNA (m) is recommended for the inhibition of IFN- κ 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 IFN- κ gene expression knockdown using RT-PCR Primer: IFN- κ (m)-PR: sc-155908-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.