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Produktinformation

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Lieferung & Zahlungsart

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- Mindermengenzuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

IL-34 siRNA (m): sc-146220

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The interleukins (ILs) are a broad family of well characterized cytokines, primarily of hematopoietic cell origin. They are secreted by immune cells (mainly macrophages, B cells or T cells) that regulate a wide range of immune system functions. The specific functions of different interleukins vary from the regulation of inflammatory and immune responses to the regulation of other interleukins. IL-34 (interleukin-34) is a 235 amino acid secreted mouse protein that belongs to the interleukin family of cytokines. Existing as a homodimer, IL-34 functions to promote the viability and differentiation of macrophages and monocytes and may also act as a ligand for c-Fms/CSF-1R, a colony-stimulating factor. Multiple alternatively spliced isoforms of IL-34 exist, all of which are encoded by a gene that maps to mouse chromosome 8.

REFERENCES

1. Smith, K.A., et al. 1980. The functional relationship of the interleukins. J. Exp. Med. 151: 1551-1556.
2. Cockayne, D.A., et al. 1991. Antisense RNA inhibition of hematopoietic growth factor production. Growth Factors 5: 171-181.
3. Sander, B., et al. 1993. Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. J. Immunol. Methods 166: 201-214.
4. Moldenhauer, A., et al. 2008. Hematopoietic progenitor cells and interleukin-stimulated endothelium: expansion and differentiation of myeloid precursors. BMC Immunol. 9: 56.
5. Lin, H., et al. 2008. Discovery of a cytokine and its receptor by functional screening of the extracellular proteome. Science 320: 807-811.
6. Liptrott, N.J., et al. 2009. The impact of cytokines on the expression of drug transporters, cytochrome P450 enzymes and chemokine receptors in human PBMC. Br. J. Pharmacol. 156: 497-508.
7. Cheng, M., et al. 2009. Distinct and overlapping patterns of cytokine regulation of thymic and bone marrow-derived NK cell development. J. Immunol. 182: 1460-1468.

CHROMOSOMAL LOCATION

Genetic locus: Il34 (mouse) mapping to 8 E1.

PRODUCT

IL-34 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see IL-34 shRNA Plasmid (m): sc-146220-SH and IL-34 shRNA (m) Lentiviral Particles: sc-146220-V as alternate gene silencing products.

For independent verification of IL-34 (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-146220A and sc-146220B.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

IL-34 siRNA (m) is recommended for the inhibition of IL-34 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 µM in 66 µl. 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 IL-34 gene expression knockdown using RT-PCR Primer: IL-34 (m)-PR: sc-146220-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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