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VCC-1 siRNA (m): sc-155097

BACKGROUND

VCC-1 (VEGF co-regulated chemokine 1), also known as Dcip1, DMC (dendritic cell and monocyte chemokine-like protein) or CXCL17 (C-X-C motif chemokine 17), is a 119 amino acid secreted protein that plays a role in angiogenesis. A member of the intercrine α (chemokine Cx) family, VCC-1 is expressed in skeletal muscle, trachea, lung, intestine and stomach, and is upregulated in duodenal mucosa of patients with acute cholera, as well as breast tumors. VCC-1 is considered a housekeeping chemokine for the movement of immature dendritic cells and non activated blood monocytes into tissues, and is thought to be involved in the innate immune response. The gene encoding VCC-1 maps to human chromosome 19q13.2 and mouse chromosome 7 A3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cxcl17 (mouse) mapping to 7 A3.

PROTOCOLS

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

PRODUCT

VCC-1 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 VCC-1 shRNA Plasmid (m): sc-155097-SH and VCC-1 shRNA (m) Lentiviral Particles: sc-155097-V as alternate gene silencing products.

For independent verification of VCC-1 (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-155097A and sc-155097B.

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

VCC-1 siRNA (m) is recommended for the inhibition of VCC-1 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 VCC-1 gene expression knockdown using RT-PCR Primer: VCC-1 (m)-PR: sc-155097-PR (20 μ l, 505 bp). 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.