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Cml5 siRNA (m): sc-142416

BACKGROUND

Acetyltransferases and deacetylases are protein groups most often associated with oncogenesis and cell cycle regulation. Cml5 (camello-like protein 5), also known as Probable N-acetyltransferase CML5, is a 227 amino acid multi-pass membrane protein that contains one N-acetyltransferase domain and belongs to the camello family. Members of the camello family share sequence similarities to the *Xenopus* protein camello, which is expressed in the suprablastoporal zone of gastrulating embryos. *Xenopus* camello is believed to play a role in gastrulation movements by modifying the cell surface and extracellular matrix proteins passing through the secretory pathway. Other members of the camello family include Cml1, Cml2, Cml3, NAT-8, NAT-8L and NAT-8B5. Cml5 may play a role in regulation of gastrulation, and is encoded by a gene that maps to mouse chromosome 6 C3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cml5 (mouse) mapping to 6 C3.

PRODUCT

Cml5 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 Cml5 shRNA Plasmid (m): sc-142416-SH and Cml5 shRNA (m) Lentiviral Particles: sc-142416-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

Cml5 siRNA (m) is recommended for the inhibition of Cml5 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 Cml5 gene expression knockdown using RT-PCR Primer: Cml5 (m)-PR: sc-142416-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 for detailed protocols and support products.