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SLC26A9 siRNA (m): sc-153527

BACKGROUND

SLC26A9 (solute carrier family 26, member 9) is a 791 amino acid multi-pass membrane protein that contains one STAS domain and belongs to the SLC26A family of sulfate/anion transporter proteins. Expressed predominately in lung tissue, but also present in prostate and pancreas, SLC26A9 functions as a DIDS- and thiosulfate-sensitive anion exchanger that mediates the transport of oxalate, chloride and sulfate across the membrane. SLC26A9 is able to regulate chloride/bicarbonate exchange and is inhibited by ammonium and thiosulfate. The gene encoding SLC26A9 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinsons disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

1. Markovich, D. 2001. Physiological roles and regulation of mammalian sulfate transporters. *Physiol. Rev.* 81: 1499-1533.
2. Lohi, H., et al. 2002. Functional characterization of three novel tissue-specific anion exchangers SLC26A7, -A8, and -A9. *J. Biol. Chem.* 277: 14246-14254.
3. Online Mendelian Inheritance in Man, OMIM™. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 608481. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Romero, M.F., et al. 2006. Physiology of electrogenic SLC26 paralogues. *Novartis Found. Symp.* 273: 126-138.
5. Dorwart, M.R., et al. 2007. SLC26A9 is a Cl⁻ channel regulated by the WNK kinases. *J. Physiol.* 584: 333-345.
6. Loriol, C., et al. 2008. Characterization of SLC26A9, facilitation of Cl⁻ transport by bicarbonate. *Cell. Physiol. Biochem.* 22: 15-30.

CHROMOSOMAL LOCATION

Genetic locus: Slc26a9 (mouse) mapping to 1 E4.

PRODUCT

SLC26A9 siRNA (m) is a pool of 3 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 SLC26A9 shRNA Plasmid (m): sc-153527-SH and SLC26A9 shRNA (m) Lentiviral Particles: sc-153527-V as alternate gene silencing products.

For independent verification of SLC26A9 (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-153527A, sc-153527B and sc-153527C.

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 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

SLC26A9 siRNA (m) is recommended for the inhibition of SLC26A9 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 SLC26A9 gene expression knockdown using RT-PCR Primer: SLC26A9 (m)-PR: sc-153527-PR (20 μ l). 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.