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SANTA CRUZ BIOTECHNOLOGY, INC.

TRPD52L3 siRNA (m): sc-154694

BACKGROUND

TRPD52L3 (tumor protein D52-like 3) is a 231 amino acid protein believed to resemble tumor protein D52 in form and function. Tumor protein D52 belongs to the TPD52 family and can form homodimers or heterodimers with other members of the family. Tumor protein D52 is found to be expressed at high levels in exocrine cells containing large secretory granules where it is believed to regulate Ca^{2+}-dependent protein secretion. It is also believed that overexpression of tumor protein D52 in cancer reflects specific targeting and may contribute to a more proliferative, aggressive tumor phenotype in breast cancer.

REFERENCES

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PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: Trpd52l3 (mouse) mapping to 19 C1.

PRODUCT

TRPD52L3 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see TRPD52L3 shRNA Plasmid (m): sc-154694-SH and TRPD52L3 shRNA (m) Lentiviral Particles: sc-154694-V as alternate gene silencing products.

For independent verification of TRPD52L3 (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-154694A, sc-154694B and sc-154694C.

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

TRPD52L3 siRNA (m) is recommended for the inhibition of TRPD52L3 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 TRPD52L3 gene expression knockdown using RT-PCR Primer: TRPD52L3 (m)-PR: sc-154694-PR (20 µl). 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.