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NET-7 siRNA (m): sc-154725

BACKGROUND

NET-7, also known as TSPAN15 (tetraspanin 15) or TM4SF15 (transmembrane 4 superfamily member 15), is a 294 amino acid multi-pass membrane protein that belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Members of the tetraspanin family are cell-surface proteins that are characterized by the presence of four hydrophobic domains and mediate signal transduction events that play a role in the regulation of cell development, activation, growth, motility, differentiation, and cancer. Considered molecular facilitators, tetraspanin proteins may regulate vesicle fusion and fission.

REFERENCES

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6. Levy, S. and Shoham, T. 2005. The tetraspanin web modulates immune-signalling complexes. *Nat. Rev. Immunol.* 5: 136-148.
7. García-España, A., Chung, P.J., Sarkar, I.N., Stiner, E., Sun, T.T. and Desalle, R. 2008. Appearance of new tetraspanin genes during vertebrate evolution. *Genomics* 91: 326-334.

CHROMOSOMAL LOCATION

Genetic locus: Tspan15 (mouse) mapping to 10 B4.

PRODUCT

NET-7 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 NET-7 shRNA Plasmid (m): sc-154725-SH and NET-7 shRNA (m) Lentiviral Particles: sc-154725-V as alternate gene silencing products.

For independent verification of NET-7 (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-154725A, sc-154725B and sc-154725C.

PROTOCOLS

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

NET-7 siRNA (m) is recommended for the inhibition of NET-7 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 NET-7 gene expression knockdown using RT-PCR Primer: NET-7 (m)-PR: sc-154725-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.