

TAF A5 siRNA (m): sc-154060

BACKGROUND

A group of small secreted proteins known as the TAF A family consists of five highly homologous genes: TAF A1, TAF A2, TAF A3, TAF A4 and TAF A5. Members of the TAF A family contain conserved cysteine residues at fixed positions and are highly expressed in brain. The TAF A family may be distantly related to a member of the CC-chemokine family known as MIP-1 α , and have been postulated to regulate nervous and immune cells of the brain as neurokines or chemokines. TAF A5 (chemokine-like protein TAF A-5), also known as FAM19A5 (family with sequence similarity 19 (chemokine (C-C motif)-like), member A5), is a 132 amino acid protein that belongs to the FAM19/TAF A family. A single-pass membrane protein, TAF A5 consists of three alternatively spliced variants that are encoded by a gene located on human chromosome 22. TAF A5 isoform 2 is a brain-specific secreted protein.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Fam19a5 (mouse) mapping to 15 E3.

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.

PRODUCT

TAF A5 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 TAF A5 shRNA Plasmid (m): sc-154060-SH and TAF A5 shRNA (m) Lentiviral Particles: sc-154060-V as alternate gene silencing products.

For independent verification of TAF A5 (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-154060A, sc-154060B and sc-154060C.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ 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

TAF A5 siRNA (m) is recommended for the inhibition of TAF A5 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 TAF A5 gene expression knockdown using RT-PCR Primer: TAF A5 (m)-PR: sc-154060-PR (20 μ l). Annealing temperature for the primers should be 55-60 $^{\circ}$ C and the extension temperature should be 68-72 $^{\circ}$ C.