

Produktinformation



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SANTA CRUZ BIOTECHNOLOGY, INC.

SETD6 siRNA (m): sc-153387



BACKGROUND

SETD6 (SET domain-containing protein 6) is a 473 amino acid protein that belongs to the SETD6 family. Containing one SET domain, SETD6 is structurally similar to the Rubisco large subunit methyltransferase. SETD6 is a protein-lysine N-methyltransferase that specifically monomethylates "Lys-310" of the NF κ B p65 subunit of NF κ B complex, leading to down-regulate NF κ B transcription factor activity. SETD6-mediated methylation renders NF κ B p65 inert and attenuates NF κ B p65-driven transcriptional programs, including inflammatory responses in primary immune cells. The SETD6-initiated lysinemethylation signaling cascade acts to restrain activation of NF κ B-mediated inflammatory responses in diverse cell types. Existing as two alternatively spliced isoforms, the SETD6 gene is conserved in canine, bovine, mouse, rat, chicken, zebrafish, *M.grisea and N.crassa*, and maps to human chromosome 16q21.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Setd6 (mouse) mapping to 8 D1.

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

SETD6 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 SETD6 shRNA Plasmid (m): sc-153387-SH and SETD6 shRNA (m) Lentiviral Particles: sc-153387-V as alternate gene silencing products.

For independent verification of SETD6 (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-153387A, sc-153387B and sc-153387C.

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

SETD6 siRNA (m) is recommended for the inhibition of SETD6 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 SETD6 gene expression knockdown using RT-PCR Primer: SETD6 (m)-PR: sc-153387-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.