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# Produktinformation

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- Diagnostik & molekulare Diagnostik
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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


**SZABO-SCANDIC HandelsgmbH**

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

# SNFT siRNA (m): sc-153654

## BACKGROUND

SNFT, also known as BATF3 (basic leucine zipper transcription factor, ATF-like 3), JUNDM1 or JDP1, is a 127 amino acid protein that localizes to the nucleus and contains one bZIP domain. Interacting with c-Jun, SNFT functions as a negative regulator of AP-1-mediated transcription, specifically by heterodimerizing with c-Jun and binding to DNA response elements. The gene encoding SNFT 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, Parkinson's 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. Iacobelli, M., et al. 2000. Repression of IL-2 promoter activity by the novel basic leucine zipper p21$^{SNFT}$ protein. J. Immunol. 165: 860-868.
2. Bower, K.E., et al. 2002. Correlation of transcriptional repression by p21$^{SNFT}$ with changes in DNA.NF-AT complex interactions. J. Biol. Chem. 277: 34967-34977.
3. Newman, J.R., et al. 2003. Comprehensive identification of human bZIP interactions with coiled-coil arrays. Science 300: 2097-2101.
4. Bower, K.E., et al. 2004. Transcriptional repression of MMP-1 by p21$^{SNFT}$ and reduced *in vitro* invasiveness of hepatocarcinoma cells. Oncogene 23: 8805-8814.
5. Hildner, K., et al. 2008. Batf3 deficiency reveals a critical role for CD8$\alpha^+$ dendritic cells in cytotoxic T cell immunity. Science 322: 1097-1100.
6. Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 612470. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
7. Schraml, B.U., et al. 2009. The AP-1 transcription factor Batf controls $T_H17$ differentiation. Nature 460: 405-409.


## CHROMOSOMAL LOCATION

Genetic locus: Batf3 (mouse) mapping to 1 H6.

## PRODUCT

SNFT siRNA (m) is a target-specific 19-25 nt siRNA 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 SNFT shRNA Plasmid (m): sc-153654-SH and SNFT shRNA (m) Lentiviral Particles: sc-153654-V as alternate gene silencing products.

## 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 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

SNFT siRNA (m) is recommended for the inhibition of SNFT 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 SNFT gene expression knockdown using RT-PCR Primer: SNFT (m)-PR: sc-153654-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## SELECT PRODUCT CITATIONS


1. Sharma, M.D., et al. 2018. Activation of p53 in immature myeloid precursor cells controls differentiation into Ly6c$^+$CD103$^+$ monocytic antigen-presenting cells in tumors. Immunity 48: 91-106.


## RESEARCH USE

For research use only, not for use in diagnostic procedures.