



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



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](https://www.linkedin.com/company/szaboscandic) 

SCLIP siRNA (m): sc-153258

BACKGROUND

SCLIP (Stathmin-3), also known as SCG10-like protein, is a 180 amino acid neuronal specific protein which belongs to the Stathmin protein family. Stathmin family members are phosphoproteins expressed in the cytoplasm which function to regulate microtubule dynamics. Stathmin complexes with tubulin dimers to sequester tubulin and promote microtubule disassembly. Phosphorylation of stathmin proteins weakens stathmin-tubulin complexes and promotes microtubule assembly. Mitotic spindle assembly during cell division requires phosphorylation of stathmin proteins. The cell cycle is arrested when stathmin-tubulin complexes are present. Non-functional stathmin family members are oncoproteins that are responsible for uncontrolled cell proliferation. SCLIP is encoded by a gene, STMN3, that maps to human chromosome 20.

REFERENCES

- Jourdain, L., Curmi, P., Sobel, A., Pantaloni, D. and Carlier, M.F. 1997. Stathmin: a tubulin-sequestering protein which forms a ternary T2S complex with two tubulin molecules. *Biochemistry* 36: 10817-10821.
- Ozon, S., Maucuer, A. and Sobel, A. 1997. The stathmin family—molecular and biological characterization of novel mammalian proteins expressed in the nervous system. *Eur. J. Biochem.* 248: 794-806.
- Ozon, S., Byk, T. and Sobel, A. 1998. SCLIP: a novel SCG10-like protein of the stathmin family expressed in the nervous system. *J. Neurochem.* 70: 2386-2396.
- Curmi, P.A., Gavet, O., Charbaut, E., Ozon, S., Lachkar-Colmerauer, S., Manceau, V., Siavoshian, S., Maucuer, A. and Sobel, A. 1999. Stathmin and its phosphoprotein family: general properties, biochemical and functional interaction with tubulin. *Cell Struct. Funct.* 24: 345-357.
- Cassimeris, L. 2002. The oncoprotein 18/stathmin family of microtubule destabilizers. *Curr. Opin. Cell Biol.* 14: 18-24.
- Clement, M.J., Jourdain, I., Lachkar, S., Savarin, P., Gigant, B., Knossow, M., Toma, F., Sobel, A. and Curmi, P.A. 2005. N-terminal stathmin-like peptides bind tubulin and impede microtubule assembly. *Biochemistry* 44: 14616-14625.

CHROMOSOMAL LOCATION

Genetic locus: *Stmn3* (mouse) mapping to 2 H4.

PRODUCT

SCLIP siRNA (m) is a pool of 2 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 SCLIP shRNA Plasmid (m): sc-153258-SH and SCLIP shRNA (m) Lentiviral Particles: sc-153258-V as alternate gene silencing products.

For independent verification of SCLIP (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-153258A and sc-153258B.

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

SCLIP siRNA (m) is recommended for the inhibition of SCLIP 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 SCLIP gene expression knockdown using RT-PCR Primer: SCLIP (m)-PR: sc-153258-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.

PROTOCOLS

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