



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) 

UNC5CL siRNA (m): sc-154921

BACKGROUND

The UNC5 family of proteins are involved in netrin-mediated signaling events in blood vessel patterning, axonal migrations, and apoptosis. Members of this family generally contain three domains, ZU5, UPA, and death domain (DD), which are important to UNC5 protein function. UNC5CL (UNC5C-like protein), also known as protein UNC5 homolog C-like or zud (ZU5 and death domain-containing protein), is a 518 amino acid single-pass type III membrane protein that belongs to the UNC5 family and contains one death domain and a ZU5 domain. Localizing to cytoplasm as well as membrane, UNC5CL impairs NF κ B binding to its targets thus inhibiting NF κ B -dependent transcription. UNC5CL exists as four alternatively spliced isoforms.

REFERENCES

1. Freyssinet, G., Harris, G.C., Nasatir, M. and Schiff, J.A. 1979. Events surrounding the early development of euglena chloroplasts: 14. biosynthesis of cytochrome C-552 in wild type and mutant cells. *Plant Physiol.* 63: 908-915.
2. Zhang, J., Xu, L.G., Han, K.J. and Shu, H.B. 2004. Identification of a ZU5 and death domain-containing inhibitor of NF κ B. *J. Biol. Chem.* 279: 17819-17825.
3. Carninci, P., Kasukawa, T., Katayama, S., Gough, J., Frith, M.C., Maeda, N., Oyama, R., Ravasi, T., Lenhard, B., Wells, C., Kodzius, R., Shimokawa, K., Bajic, V.B., Brenner, S.E., Batalov, S., Forrest, A.R., Zavolan, M., et al. 2005. The transcriptional landscape of the mammalian genome. *Science* 309: 1559-1563.
4. Wang, R., Wei, Z., Jin, H., Wu, H., Yu, C., Wen, W., Chan, L.N., Wen, Z. and Zhang, M. 2009. Autoinhibition of UNC5b revealed by the cytoplasmic domain structure of the receptor. *Mol. Cell* 33: 692-703.
5. Lü, D., Qian, X.P., Tian, X.J., Zhang, Y. and Zhang, J. 2010. Prokaryotic expression, purification and preparation of polyclonal antibody for human UNC5CL. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi* 26: 242-245.

CHROMOSOMAL LOCATION

Genetic locus: *Unc5cl* (mouse) mapping to 17 C.

PRODUCT

UNC5CL 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 UNC5CL shRNA Plasmid (m): sc-154921-SH and UNC5CL shRNA (m) Lentiviral Particles: sc-154921-V as alternate gene silencing products.

For independent verification of UNC5CL (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-154921A, sc-154921B and sc-154921C.

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

UNC5CL siRNA (m) is recommended for the inhibition of UNC5CL 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 UNC5CL gene expression knockdown using RT-PCR Primer: UNC5CL (m)-PR: sc-154921-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.