



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)



NCoA-5 siRNA (m): sc-149858

BACKGROUND

Nuclear receptors for steroids, thyroid hormones and retinoic acids are ligand-dependent transcription factors that activate transcription through specific DNA binding sites in their target genes. NCoA-5 (nuclear receptor coactivator 5), also known as CIA (coactivator independent of AF-2), is a widely expressed nuclear receptor coregulator consisting of 579 amino acids. NCoA-5 acts as a coactivator for ER α (estrogen receptor α), ER β (estrogen receptor β) and Rev-erb β (orphan nuclear hormone receptor BD73), and corepresses c-Myc in response to 17- β -estradiol. NCoA-5 contains one LxxLL (Leu-Xaa-Xaa-Leu-Leu) motif that allows it to successfully associate with nuclear receptors, and the NCoA-5 gene maps to human chromosome 20q12.

REFERENCES

1. Sauve, F., McBroom, L.D., Gallant, J., Moraitis, A.N., Labrie, F. and Giguère, V. 2001. CIA, a novel estrogen receptor coactivator with a bifunctional nuclear receptor interacting determinant. *Mol. Cell. Biol.* 21: 343-353.
2. McDonnell, D.P. and Norris, J.D. 2002. Connections and regulation of the human estrogen receptor. *Science* 296: 1642-1644.
3. Jiang, C., Ito, M., Piening, V., Bruck, K., Roeder, R.G. and Xiao, H. 2004. TIP30 interacts with an estrogen receptor α -interacting coactivator CIA and regulates c-Myc transcription. *J. Biol. Chem.* 279: 27781-27789.
4. Klinge, C.M., Jernigan, S.C., Mattingly, K.A., Risinger, K.E. and Zhang, J. 2004. Estrogen response element-dependent regulation of transcriptional activation of estrogen receptors α and β by coactivators and corepressors. *J. Mol. Endocrinol.* 33: 387-410.
5. Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J., Li, Y., Xu, C., Fang, R., Guegler, K., Rao, M.S., Mandalam, R., Lebkowski, J. and Stanton, L.W. 2004. Transcriptome characterization elucidates signaling networks that control human ES cell growth and differentiation. *Nat. Biotechnol.* 22: 707-716.
6. Ulke-Lemee, A., Trinkle-Mulcahy, L., Chaulk, S., Bernstein, N.K., Morrice, N., Glover, M., Lamond, A.I. and Moorhead, G.B. 2007. The nuclear PP1 interacting protein ZAP3 (ZAP) is a putative nucleoside kinase that complexes with SAM68, CIA, NF110/45, and HNRNP-G. *Biochim. Biophys. Acta* 1774: 1339-1350.

CHROMOSOMAL LOCATION

Genetic locus: Ncoa5 (mouse) mapping to 2 H3.

PRODUCT

NCoA-5 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 NCoA-5 shRNA Plasmid (m): sc-149858-SH and NCoA-5 shRNA (m) Lentiviral Particles: sc-149858-V as alternate gene silencing products.

For independent verification of NCoA-5 (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-149858A, sc-149858B and sc-149858C.

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

NCoA-5 siRNA (m) is recommended for the inhibition of NCoA-5 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 NCoA-5 gene expression knockdown using RT-PCR Primer: NCoA-5 (m)-PR: sc-149858-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.