

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 in



Psp siRNA (m): sc-155947



The Power to Ouestion

BACKGROUND

Neurotrophic factors are soluble proteins that are involved in the development and maintenance of the peripheral and central nervous systems. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are members of a family of neurotrophic factors that is distantly related to the TGF β superfamily. A third member of this family, Persephin (PSP), is 40% identical to GDNF and NTN. PSP, like GDNF and NTN, promotes survival and inhibits degeneration of dopaminergic neurons. Unlike GDNF and NTN, however, PSP does not appear to support peripheral neurons. While PSP also plays a role in kidney development, as do GDNF and NTN, it does not promote enteric proliferation or survival. PSP is widely distributed throughout the nervous system, and it is thought to be of astroglial and neuronal origin. The signaling mechanism of PSP appears to be similar to that of GDNF and NTN, requiring the Ret receptor tyrosine kinase and a GPI-linked ligand-binding domain subunit.

REFERENCES

- 1. Shen, L., et al. 1997. Recent progress in studies of neurotrophic factors and their clinical implications. J. Mol. Med. 75: 637-644.
- Pachnis, V., et al. 1998. Role of the RET signal transduction pathway in development of the mammalian enteric nervous system. Am. J. Physiol. 275: G183-G186.
- 3. Milbrandt, J., et al. 1998. Persephin, a novel neurotrophic factor related to GDNF and neurturin. Neuron 20: 245-253.
- Heuckeroth, R.O., et al. 1998. Neuturin and GDNF promote proliferation and survival of enteric neuron and glial progenitors in vitro. Dev. Biol. 200: 116-129.
- 5. Jaszai, J., et al. 1998. GDNF-related factor persephin is widely distributed throughout the nervous system. J. Neurosci. Res. 53: 494-501.
- 6. Enokido, Y., et al. 1998. GFR α -4 and the tyrosine kinase Ret form a functional receptor complex for persephin. Curr. Biol. 8: 1019-1022.

CHROMOSOMAL LOCATION

Genetic locus: Bpifa2 (mouse) mapping to 2 H1.

PRODUCT

Psp 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 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Psp shRNA Plasmid (m): sc-155947-SH and Psp shRNA (m) Lentiviral Particles: sc-155947-V as alternate gene silencing products.

For independent verification of Psp (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-155947A and sc-155947B.

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

Psp siRNA (m) is recommended for the inhibition of Psp 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 Psp gene expression knockdown using RT-PCR Primer: Psp (m)-PR: sc-155947-PR (20 μ I). 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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com