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

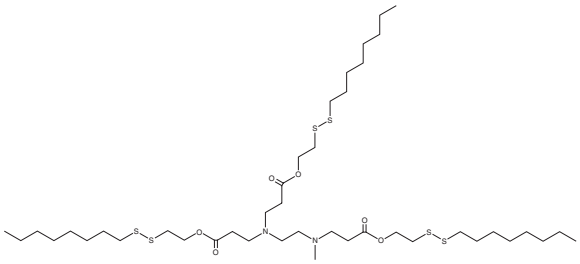
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

2N12B

Item No. 41094

Formal Name: *bis*(2-(octyldisulfaneyl)ethyl) 3,3'-((2-(methyl(3-(2-(octyldisulfaneyl) ethoxy)-3-oxopropyl)amino)ethyl) azanediyl)dipropionate
MF: $C_{42}H_{82}N_2O_6S_6$
FW: 903.5
Purity: ≥95%
Supplied as: A solution in methyl acetate
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

2N12B is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and DMSO purged with an inert gas can be used. 2N12B is soluble (≥10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

2N12B is a disulfide bond-containing ionizable cationic lipid (pK_a = 6.5) that has been used in the generation of lipid nanoparticles (LNPs) for siRNA delivery *in vitro* and *in vivo*.[1] LNPs containing 2N12B and encapsulating siRNA targeting *VEGFA* mRNA reduce VEGFA levels in ARPE-19 retinal pigment cells, as well as reduce migration of human umbilical vein endothelial cells (HUVECs) in a wound healing assay. LNPs containing 2N12B and encapsulating siRNA targeting *Vegfa* mRNA reduce Vegfa levels in isolated mouse retina, as well as inhibit retinal angiogenesis and decrease fundus vessel leakage, in a mouse model of oxygen-induced retinopathy.

Reference

1. Cao, X., Su, L., and Chen, H. A potent bioreducible ionizable lipid nanoparticle enables siRNA delivery for retinal neovascularization inhibition. *Eur. J. Pharm. Biopharm.* **199**, 114296 (2024).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM