



# 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

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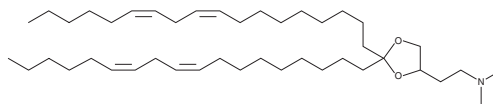
# PRODUCT INFORMATION



## DLin-KC2-DMA

Item No. 34363

**CAS Registry No.:** 1190197-97-7  
**Formal Name:** N,N-dimethyl-2,2-di-(9Z,12Z)-9,12-octadecadien-1-yl-1,3-dioxolane-4-ethanamine  
**Synonym:** KC2  
**MF:** C<sub>43</sub>H<sub>79</sub>NO<sub>2</sub>  
**FW:** 642.1  
**Purity:** ≥98%  
**Supplied as:** A liquid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

DLin-KC2-DMA is supplied as a liquid. A stock solution may be made by dissolving the DLin-KC2-DMA in the solvent of choice, which should be purged with an inert gas. DLin-KC2-DMA is soluble in the organic solvent DMSO.

### Description

DLin-KC2-DMA is an ionizable amino lipid (apparent  $pK_a = 6.7$ ) that has been used in combination with other lipids in the formation of lipid nanoparticles.<sup>1</sup> Administration of Factor VII siRNA in DLin-KC2-DMA-containing lipid nanoparticles reduces serum Factor VII protein levels in mice. Lipid nanoparticles containing DLin-KC2-DMA and androgen receptor siRNA decrease serum prostate-specific antigen (PSA) and tumor androgen receptor protein levels in an LNCaP mouse xenograft model.<sup>2</sup>

### References

1. Semple, S.C., Akinc, A., Chen, J., *et al.* Rational design of cationic lipids for siRNA delivery. *Nat. Biotechnol.* **28**(2), 172-176 (2010).
2. Lee, J.B., Zhang, K., Tam, Y.Y.C., *et al.* Lipid nanoparticle siRNA systems for silencing the androgen receptor in human prostate cancer *in vivo*. *Int. J. Cancer* **131**(5), E781-E790 (2012).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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