



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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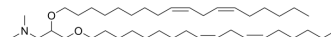
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## DLinDMA

|                    |                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-112757                                                                                                                                     |
| CAS No.:           | 871258-12-7                                                                                                                                   |
| Molecular Formula: | C <sub>41</sub> H <sub>77</sub> NO <sub>2</sub>                                                                                               |
| Molecular Weight:  | 616.06                                                                                                                                        |
| Target:            | Liposome                                                                                                                                      |
| Pathway:           | Metabolic Enzyme/Protease                                                                                                                     |
| Storage:           | <div>Pure form</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div> |



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (162.32 mM; Need ultrasonic)  
 Ethanol : ≥ 100 mg/mL (162.32 mM)  
 \* "≥" means soluble, but saturation unknown.

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |
|------------------------------|--------------------------|------|-----------|-----------|------------|
|                              |                          |      |           |           |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 1.6232 mL | 8.1161 mL | 16.2322 mL |
|                              | 5 mM                     |      | 0.3246 mL | 1.6232 mL | 3.2464 mL  |
|                              | 10 mM                    |      | 0.1623 mL | 0.8116 mL | 1.6232 mL  |

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.06 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% EtOH >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution

## BIOLOGICAL ACTIVITY

|                    |                                                                                                                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | DLinDMA, a ionizable cationic lipid, is a key lipid component of stable nucleic acid lipid particles (SNALPs) as a benchmark. DLinDMA is used for siRNA delivery <sup>[1]</sup> .                                                      |
| <b>In Vitro</b>    | The structure of DLinDMA can be divided into three main regions: the hydrocarbon chains, the linker and the headgroup <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| <b>In Vivo</b>     | DLinDMA has virtually indistinguishable blood pharmacokinetic profiles in mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                        |

## CUSTOMER VALIDATION

- Nanomedicine. 2021 May 7.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Semple SC, et al. Rational design of cationic lipids for siRNA delivery. Nat Biotechnol. 2010 Feb;28(2):172-6.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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