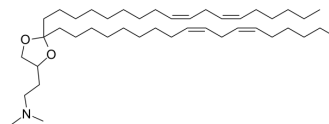


## DLin-KC2-DMA

<b>Cat. No.:</b>	HY-112758
<b>CAS No.:</b>	1190197-97-7
<b>Molecular Formula:</b>	C <sub>43</sub> H <sub>79</sub> NO <sub>2</sub>
<b>Molecular Weight:</b>	642.09
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

#### In Vitro

Ethanol : 100 mg/mL (155.74 mM; Need ultrasonic)  
DMSO : 100 mg/mL (155.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.5574 mL	7.7871 mL	15.5741 mL
	5 mM	0.3115 mL	1.5574 mL	3.1148 mL
	10 mM	0.1557 mL	0.7787 mL	1.5574 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 (3.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (3.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (3.89 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

DLin-KC2-DMA is a cationic/ionizable lipid for siRNA delivery<sup>[1]</sup>.

### CUSTOMER VALIDATION

- bioRxiv. September 30, 2021.

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

## REFERENCES

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[1]. Miller AD, et al. Delivery of RNAi therapeutics: work in progress. Expert Rev Med Devices. 2013 Nov;10(6):781-811.

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

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