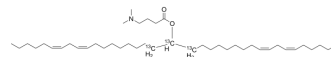


## D-Lin-MC3-DMA-<sup>13</sup>C<sub>3</sub>

Cat. No.:	HY-112251S
Molecular Formula:	C <sub>40</sub> <sup>13</sup> C <sub>3</sub> H <sub>79</sub> NO <sub>2</sub>
Molecular Weight:	645.07
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	D-Lin-MC3-DMA- <sup>13</sup> C <sub>3</sub> is the <sup>13</sup> C labeled D-Lin-MC3-DMA. D-Lin-MC3-DMA, an ionizable cationic lipid, is a potent siRNA delivery vehicle[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Kulkarni JA, et al. Design of lipid nanoparticles for in vitro and in vivo delivery of plasmid DNA. *Nanomedicine*. 2017 May;13(4):1377-1387.

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

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