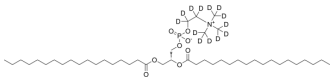
1,2-Distearoyl-sn-glycero-3-phosphorylcholine-d_{13}

Cat. No.:	HY-W040193S6
CAS No.:	326495-37-8
Molecular Formula:	$C_{44}H_{75}D_{13}NO_8P$
Molecular Weight:	803.23
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,2-Distearoyl-sn-glycero-3-phosphorylcholine-d_{13} is deuterium labeled 1,2-Distearoyl-sn-glycero-3-phosphorylcholine. 1,2-Distearoyl-sn-glycero-3-phosphorylcholine (1,2-Distearoyl-sn-glycero-3-PC; DSPC) is a cylindrical-shaped lipid. 1,2-Distearoyl-sn-gly
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[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. Jayesh A Kulkarni, et al. On the role of helper lipids in lipid nanoparticle formulations of siRNA. Nanoscale. 2019 Nov 21;11(45):21733-21739.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

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