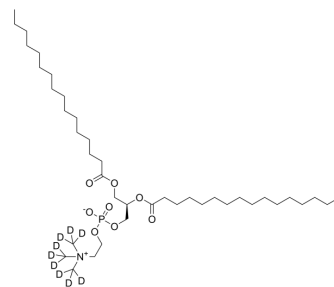


DPPC-d₉-1

Cat. No.:	HY-109506S3
CAS No.:	77165-56-1
Molecular Formula:	C ₄₀ H ₇₁ D ₉ NO ₈ P
Molecular Weight:	743.09
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DPPC-d ₉ -1 is the deuterium labeled DPPC. DPPC (129Y83) is a zwitterionic phosphoglyceride that can be used for the preparation of liposomal monolayers[1]. DPPC-liposome serves effectively as a delivery vehicle for inducing immune responses against GSL antigen in mice[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 ^[1] . 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;53(2):211-216.
- [2]. Miller AD. Delivery of RNAi therapeutics: work in progress. *Expert Rev Med Devices*. 2013 Nov;10(6):781-811.
- [3]. Akiko Uemura, et al. Induction of immune responses against glycosphingolipid antigens: comparison of antibody responses in mice immunized with antigen associated with liposomes prepared from various phospholipids. *J Vet Med Sci*. 2005 Dec;67(12):1197-201.

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

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