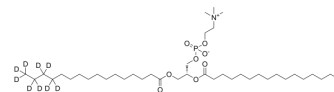


DPPC-d₉

Cat. No.:	HY-109506S1		
Molecular Formula:	C ₄₀ H ₇₁ D ₉ NO ₈ P		
Molecular Weight:	743.09		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	DPPC-d ₉ 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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