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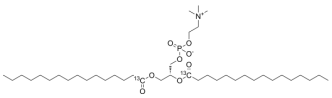
DPPC-$^{13}C_2$

Cat. No.:	HY-109506S9
CAS No.:	65277-91-0
Molecular Formula:	$C_{38}{}^{13}C_2H_{80}NO_8P$
Molecular Weight:	736.02
Target:	Endogenous Metabolite; Liposome; 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-13C2 is a deuterated labeled DPPC[1]. DPPC (129Y83) is a phosphoglyceride that can be used to prepare lipid monolayers, bilayers, and liposomes. DPPC is the main lipid component of pulmonary surfactant. Dppc-liposome can be effectively used as a delivery vector to induce an immune response against GSL antigen in mice[2][3][4][5][6].
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]. Miller AD. Delivery of RNAi therapeutics: work in progress. Expert Rev Med Devices. 2013 Nov;10(6):781-811.

[2]. 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.

[3]. Ege C, et al. Insertion of Alzheimer's A beta 40 peptide into lipid monolayers. Biophys J. 2004 Sep;87(3):1732-40.

[4]. Kalra VK, et al. Transport of amino acids in gamma-glutamyl transpeptidase-implanted human erythrocytes. J Biol Chem. 1981 Jun 10;256(11):5567-71.

[5]. Leekumjorn S, et al. Molecular simulation study of structural and dynamic properties of mixed DPPC/DPPE bilayers. Biophys J. 2006 Jun 1;90(11):3951-65.

[6]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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