



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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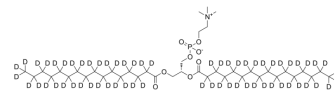
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DPPC-d₆₂

Cat. No.:	HY-109506S		
CAS No.:	25582-63-2		
Molecular Formula:	C ₄₀ H ₁₈ D ₆₂ NO ₈ P		
Molecular Weight:	796.42		
Target:	Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 30 mg/mL (37.67 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.2556 mL	6.2781 mL	12.5562 mL
5 mM	0.2511 mL	1.2556 mL	2.5112 mL
10 mM	0.1256 mL	0.6278 mL	1.2556 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DPPC-d₆₂ 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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