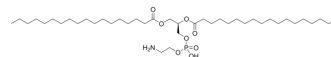


1,2-Distearoyl-sn-glycero-3-phosphorylethanolamine

Cat. No.:	HY-112530		
CAS No.:	1069-79-0		
Molecular Formula:	C ₄₁ H ₈₂ NO ₈ P		
Molecular Weight:	748.07		
Target:	Endogenous Metabolite; Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	Ethanol : < 1 mg/mL (ultrasonic; adjust pH to 5 with HCl) (insoluble)
	DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)

BIOLOGICAL ACTIVITY

Description	1,2-Distearoyl-sn-glycero-3-phosphorylethanolamine (DSPE) is a phosphoethanolamine (PE) lipid that can be used in the synthesis of liposomes ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	1,2-Distearoyl-sn-glycero-3-phosphorylethanolamine (DSPE), one of many phosphoethanolamine (PE) lipids, cannot sustain a lamellar form at pH values below -8.5, the pKa of the ethanolamine moiety ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. McCarley RL, et al. Redox-responsive delivery systems. Annu Rev Anal Chem (Palo Alto Calif). 2012;5:391-411.

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

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