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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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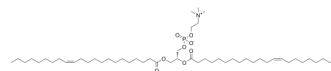
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1,2-Dierucoyl-sn-glycero-3-phosphocholine

Cat. No.:	HY-W127499		
CAS No.:	51779-95-4		
Molecular Formula:	C ₅₂ H ₁₀₀ NO ₈ P		
Molecular Weight:	898.33		
Target:	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



BIOLOGICAL ACTIVITY

Description	1,2-Dierucoyl-sn-glycero-3-phosphocholine (DEPC) is the composition of liposome membrane. 1,2-Dierucoyl-sn-glycero-3-phosphocholine is used for the preparation of liposomes and studying the properties of lipid bilayers. The GO (glucose oxidase) in the 1,2-Dierucoyl-sn-glycero-3-phosphocholine liposome shows the high activity ^{[1][2]} .
In Vitro	Glucose oxidase (GO) is encapsulated in phosphatidylcholine vesicles (PC liposomes) for controlling the oxidation rate of glucose at 40°C. The GO in the 1,2-Dierucoyl-sn-glycero-3-phosphocholine (DEPC) liposome shows the highest activity. In an external loop airlift bubble column, the oxidation reaction in the 1,2-Dierucoyl-sn-glycero-3-phosphocholine liposome system is markedly accelerated because of gas-liquid flow-induced membrane permeabilization to glucose ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Masahiro INOUE, et al. Oxidation of Glucose in Gas-Liquid Flow Catalyzed by Glucose Oxidase-Containing Liposomes with Different Acyl Chain Properties. Journal of chemical engineering of japan. Published online, 2013.
- [2]. Weber ME, et al. Dynamic assessment of bilayer thickness by varying phospholipid and hydrophile synthetic channel chain lengths. J Am Chem Soc. 2005 Jan 19;127(2):636-42.

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

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