

## Lysophosphatidylcholines

## Chemical Properties

CAS No. : 9008-30-4

Formula:

Molecular Weight:

Storage: Store at low temperature, Keep away from direct sunlight  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Lysophosphatidylcholines (Lyso-Lecithins (egg)) are orally active lipids that induce cell damage and apoptosis, and induce demyelination. Lysophosphatidylcholines play a role in mediating inflammation, fibrosis, and cancer, and can be used to study atherosclerosis.
Targets(IC50)	Apoptosis,ERK,Interleukin,p38 MAPK
In vitro	Lysophosphatidylcholines (3 $\mu$ M, 10 $\mu$ M, 30 $\mu$ M, 100 $\mu$ M; 24 hours) reduced HUVEC viability in a concentration-dependent manner[1].
In vivo	Lysophosphatidylcholines (0.1 mg/kg, 1 mg/kg, 10 mg/kg, 20 mg/kg; oral) significantly protected albino ICR mice against cecal ligation and puncture (CLP)-induced lethality at a dose of 1 mg/kg[4].

## Solubility Information

Solubility	Chloroform:Methanol(2:1): Soluble DMSO: < 0.1 mg/mL (insoluble or slightly soluble) H2O: 50 mg/mL, Sonication is recommended. Methanol: 15 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- Kim E A, et al. Lysophosphatidylcholine induces endothelial cell injury by nitric oxide production through oxidative stress [J]. The Journal of Maternal-Fetal & Neonatal Medicine, 2009, 22(4): 325-331.
- Liu-Wu Y, et al. Lysophosphatidylcholine induces the production of IL-1 $\beta$  by human monocytes [J]. Atherosclerosis, 1998, 137(2): 351-357.
- Takahashi M, et al. Lysophosphatidylcholine induces apoptosis in human endothelial cells through a p38-mitogen-activated protein kinase-dependent mechanism [J]. Atherosclerosis, 2002, 161(2): 387-394.
- Yan JJ, et al. Therapeutic effects of lysophosphatidylcholine in experimental sepsis [J]. Nature medicine, 2004, 10 (2): 161-167.

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