

Product Data Sheet

Product Name: Phosphatidylcholines,soya

Cat. No.: GC38833

Chemical Properties

Cas. No. 97281-47-5

SMILES [Phosphatidylcholines,soya]

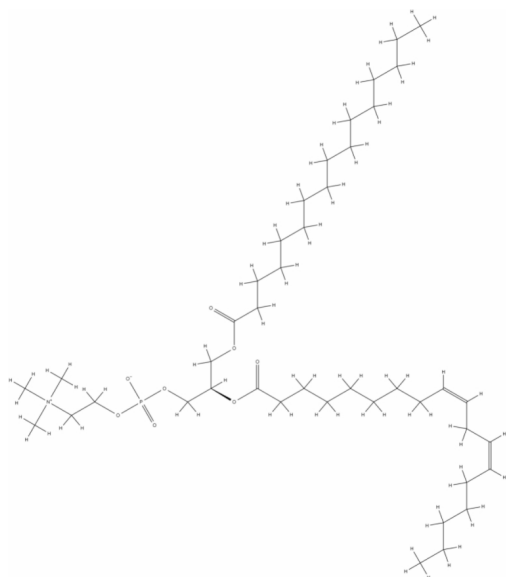
Formula $C_{42}H_{80}NO_8P$ M.Wt 758.06

Solubility Ethanol: 50 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Phosphatidylcholines,soya, a major class of glycerophospholipids present in cells, play critical roles

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

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in membrane structure and cellular signaling^[1]. Phosphatidylcholines inhibit latex bead phagosome actin assembly, the killing of *Mycobacterium tuberculosis* in macrophages, and the sphingosine 1-phosphate-induced actin assembly in macrophages^[2]. Phosphatidylcholines have been widely used in the preparation of various types of liposomes for controlled drug delivery of chemotherapeutics^[3]. Phosphatidylcholines have been employed in the engineering of exosomes to facilitate the intracellular delivery of anti-tumor drugs and enhance tumor cell uptake^[4].

References:

- [1] Lordan R, Tsoupras A, Zabetakis I. Phospholipids of animal and marine origin: Structure, function, and anti-inflammatory properties[J]. *Molecules*, 2017, 22(11): 1964.
- [2] Treede I, Braun A, Sparla R, et al. Anti-inflammatory effects of phosphatidylcholine[J]. *Journal of Biological Chemistry*, 2007, 282(37): 27155-27164.
- [3] Gkionis L, Aojula H, Harris L K, et al. Microfluidic-assisted fabrication of phosphatidylcholine-based liposomes for controlled drug delivery of chemotherapeutics[J]. *International journal of pharmaceutics*, 2021, 604: 120711.
- [4] Zhan Q, Yi K, Li X, et al. Phosphatidylcholine-engineered exosomes for enhanced tumor cell uptake and intracellular antitumor drug delivery[J]. *Macromolecular bioscience*, 2021, 21(8): 2100042.

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