

## Product Data Sheet

Product Name: 1,2-Dioctanoyl PC

Cat. No.: GC41808

### Chemical Properties

Cas. No. 19191-91-4

SMILES CCCCCCCC(=O)OC[C@H](COP(=O)([O-])OCC[N+](C)(C)C)OC(=O)CCCCCCC

Formula C<sub>24</sub>H<sub>48</sub>NO<sub>8</sub>P

M.Wt 509.6

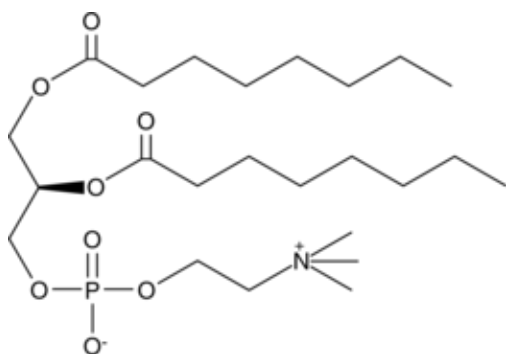
Solubility Soluble in DMSO

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

Phosphatidylcholine (PC) species are a common class of phospholipids that comprise the mammalian cell membrane. 1,2-Dioctanoyl PC is a synthetic analog of natural phosphatidylcholine species containing saturated C<sub>8</sub>:O fatty acids in the sn-1 and sn-2 positions of the glycerol backbone. It exhibits a critical micelle concentration (CMC) value of 0.25 mM at 27°C. 1,2-Dioctanoyl PC serves

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

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as an efficient substrate for phospholipase D (PLD) as well as sPLA2 isozymes from bovine pancreas and bee venom.

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