

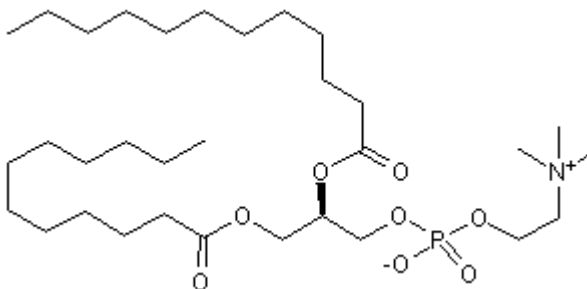
Certificate of Analysis

www.tocris.com

Product Name:	DLPC	Catalog No.:	4378	Batch No.:	3
CAS Number:	18194-25-7	EC Number:	242-086-4		
IUPAC Name:	(7 <i>R</i>)-4-Hydroxy- <i>N,N,N</i> -trimethyl-10-oxo-7-[(1-oxododecyl)oxy]-3,5,9-trioxa-4-phosphaheneicosan-1-aminium-4-oxide				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₆₄NO₈P.1³/₄H₂O
Batch Molecular Weight: 653.35
Physical Appearance: White solid
Solubility: ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +10.1 (Concentration = 1, Solvent = CHCl₃/EtOH 9:1)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.83	10.41	2.14
Found	59	10.47	2.17

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

www.tocris.com

Product Name: DLPC

CAS Number: 18194-25-7

IUPAC Name: (7*R*)-4-Hydroxy-*N,N,N*-trimethyl-10-oxo-7-[(1-oxododecyl)oxy]-3,5,9-trioxo-4-phosphaheneicosan-1-aminium-4-oxide

Catalog No.: 4378

Batch No.: 3

EC Number: 242-086-4

Description:

Selective agonist of the orphan nuclear receptor LXR-1 (liver receptor homolog-1, NR5A2) in vitro. Induces bile acid biosynthetic enzymes; increases bile acid and decreases hepatic triglycerides and serum glucose. Exhibits antidiabetic effects.

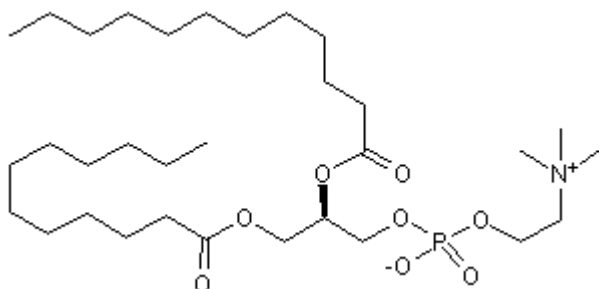
Physical and Chemical Properties:

Batch Molecular Formula: C₃₂H₆₄NO₈P.1¾H₂O

Batch Molecular Weight: 653.35

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lee *et al* (2011) A nuclear-receptor-dependent phosphatidylcholine pathway with antidiabetic effects. *Nature* **474** 506. PMID: 21614002.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956