



CERTIFICATE OF ANALYSIS

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1. Identification

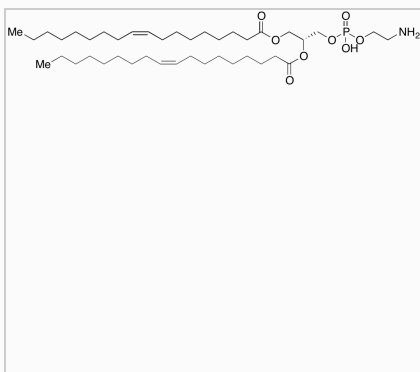
Catalogue Number: D482210

CAS Number: 4004-05-1

Product: 1,2-Dioleoyl-sn-glycero-3-phosphatidylethanolamine (DOPE)

Synonym: 9-Octadecenoic acid (9Z)-1,1'-[[(1R)-1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl] ester; 9-Octadecenoic acid (9Z)-(1R)-1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl ester; (R)-9-Octadecenoic acid (Z)-1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl ester; L-Olein 1,2-di-2-Aminoethyl Hydrogen Phosphate; L-2-Aminoethanol Dihydrogen Phosphate Monoester with 1,2-Diolein; 1,2-Dioleoyl-sn-glycero-3-phosphatidylethanolamine; 1,2-Dioleoyl-sn-glycer

Structure:



Molecular Formula:

$C_{41}H_{78}NO_8P$

Molecular weight:

744.03

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 2022-SAP-104

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
Elemental Analysis	Conforms	%C: 66.08, %H: 10.78, %N: 1.88
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+3.9° (c = 0.1, Chloroform)
P NMR	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Christina Gouliaras	11/15/2022	11/13/2026
				