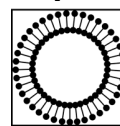
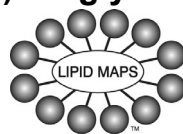


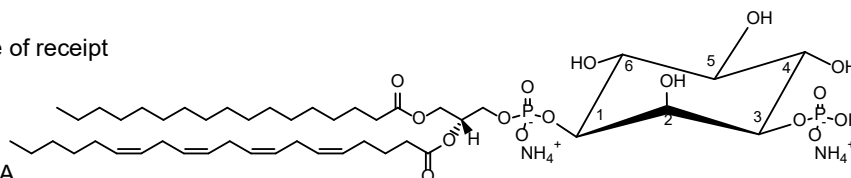
**1-heptadecanoyl-2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycero-3-phospho-(1'-myo-inositol-3'-phosphate) (ammonium salt)**

17:0-20:4 PI(3)P

LIPIDMAPS™ Compound ID: LMGP07010002

**Avanti**  
POLAR LIPIDS, INC.

Molecular Weight: 987.14 (Ammonium Salt Form) 953.08 (Proton Form)  
 Exact Mass: 986.56 (Ammonium Salt Form) 952.51 (Proton Form)  
 Molecular Formula: C<sub>46</sub>H<sub>88</sub>N<sub>2</sub>O<sub>16</sub>P<sub>2</sub>  
 Storage: -20° C (Freezer)  
 Manufacture Date: March 20, 2018  
 Expiration Date: One year from date of receipt  
 Physical Form: Powder  
 Amount Per Vial: 102 µg  
 Lot Number: LM1900-LM17-052A  
 MLOT: 6425PAA052

**Certificate of Analysis**

Test	Limits	Result
<b>Mass Spec</b>	Consistent with Structure, [M-2NH <sub>4</sub> +H] <sup>+</sup> = 952.1 ± 1amu	Pass
<b>Confirmation of Vial Content by Phosphate Assay</b>	Run and Report	102 µg per vial
<b>Phosphorus NMR</b>	Consistent with Structure	Pass
<b>Proton NMR</b>	Consistent with Structure	Pass
<b>TLC Analysis</b> (Mobile Phase 45:35:7.7:2.3 Chloroform:Methanol:Water:Ammonium Hydroxide)	R <sub>f</sub> consistent with structure, NLT 99% Purity	Pass
Ninhydrin	Negative	Negative
Iodine	One Major Spot	One Spot
Phosphorus	Positive	Positive
Char	Positive	Positive
Wet Dip	One Major Spot	One Spot

Approved by: