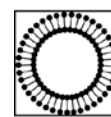


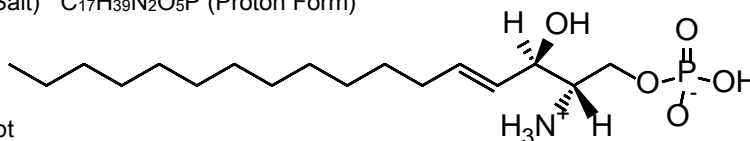
## Heptadecasphing-4-ene-1-phosphate

C17 Sphingosine-1-phosphate

LIPIDMAPS™ Compound ID: LMSP01040004


**Avanti**<sup>®</sup>  
POLAR LIPIDS, INC.

Molecular Weight: 382.48 (Ammonium Salt) 365.45 (Proton Form)  
 Exact Mass: 382.26 (Ammonium Salt) 365.23 (Proton Form)  
 Molecular Formula: C<sub>17</sub>H<sub>43</sub>N<sub>3</sub>O<sub>5</sub>P (Ammonium Salt) C<sub>17</sub>H<sub>39</sub>N<sub>2</sub>O<sub>5</sub>P (Proton Form)  
 Storage: -20° C (Freezer)  
 Manufacture Date: May 14, 2018  
 Expiration Date: One year from date of receipt  
 Physical Form: Ethanol Solution (1ml per vial)  
 Concentration: 10.01 µg/ml (27.40 µM)  
 Lot Number: LM2144-LM17-032B  
 MLOT: 6434EAB032



## Certificate of Analysis

| Test  | Limits  | Result                  |
|---|---|-------------------------|
| Mass Spec   | Consistent with Structure,<br>[M-H] <sup>-</sup> = 364.2 ± 1 amu or<br>[M+H] <sup>+</sup> = 366.2 ± 1 amu | Pass                    |
| Quantitative LC/MS  | Run and Report  | 10.01 µg/ml<br>27.40 µM |
| Proton NMR  | Consistent with Structure   | Pass                    |
| TLC Analysis<br>(Mobile Phase 10:10:3<br>Chloroform:Methanol:Water) | R <sub>f</sub> consistent with structure,<br>NLT 99% Purity   | Pass                    |
| Ninhydrin   | Positive  | Positive                |
| Iodine  | One Major Spot  | One Major Spot          |
| Phosphorus  | Positive  | Positive                |
| Char  | Positive  | Positive                |
| Wet Dip   | One Major Spot  | One Major Spot          |

Approved by:

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, AL 35007-9105, USA

• (800) 227-0651 • (205) 663-2494 • Fax (800) 229-1004 • (205) 663-0756

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