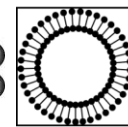
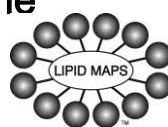


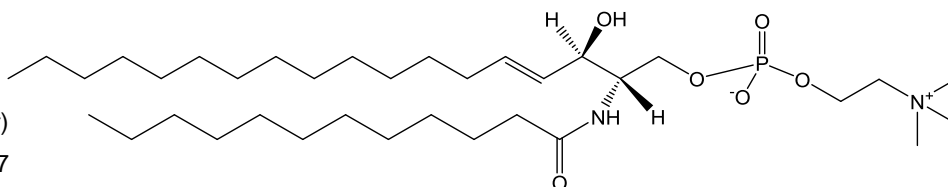
N-(dodecanoyl)-sphing-4-ene-1-phosphocholine
 Sphingomyelin (d18:1/12:0)

LIPIDMAPS™ Compound ID: LMSP03010002



Avanti[®]
POLAR LIPIDS, INC.

Molecular Weight: 646.92
 Exact Mass: 646.50
 Molecular Formula: C₃₅H₇₁N₂O₆P
 Storage: -20° C (Freezer)
 Manufacture Date: August 30, 2017
 Expiration Date: One year from date of receipt
 Physical Form: Ethanol (1ml per vial)
 Concentration: 16.03 µg/ml (24.79 µM)
 Lot Number: LM2312-LM17-041A
 Mlot Number: 6436EAA041



Certificate of Analysis

Test	Limits	Result
Mass Spec	Consistent with Structure, [M+H] ⁺ = 647.92 ±1amu	Pass
Quantitative LC/MS	Run and Report	16.03 µg/ml 24.79 µM
Proton NMR	Consistent with Structure	Pass
TLC Analysis (Mobile Phase 65:25:4 Chloroform:Methanol:Water)	R _f 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: