



Lyso SM (d17:1)

Cat. No.:	OB0626WX-5446
Appearance:	Powder
Purity:	>99%
Size:	5 mg; 10 mg; 20 mg

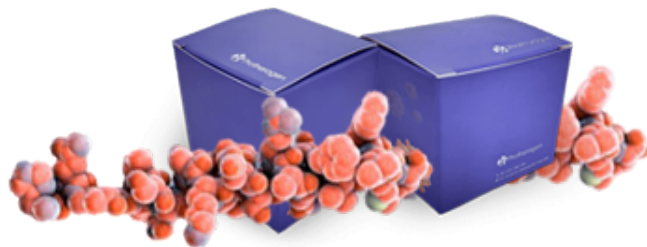
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Lyso SM (d17:1) is a lysosphingomyelin species containing a d17:1 sphingoid backbone. The absence of the N-acyl chain distinguishes its physicochemical behavior from that of intact sphingomyelin.
Synonyms	Sphingosylphosphorylcholine (C17 base); D-erythro-sphingosine phosphocholine (C17 base); C17 lysosphingomyelin; C17 sphingosine-1-phosphocholine; LysoSM(d17:1); heptadecasphing-4-enine-1-phosphocholine; SM(d17:1/); 118540-32-2; [(E,2S,3R)-2-amino-3-hydroxyheptadec-4-enyl] 2-(trimethylazaniumyl)ethyl phosphate; Ethanaminium, 2-[[[(2-amino-3-hydroxy-4-heptadecenyl)oxy]hydroxyphosphinyloxy]-N,N,N-trimethyl-, inner salt, [R-[R*,S*]
CAS No.	118540-32-2
Compound CID	44260120
Formula	C ₂₂ H ₄₇ N ₂ O ₅ P
Formula Weight	450.593

Specification

Hygroscopic	No
Light Sensitive	No
IUPAC Name	[(E,2S,3R)-2-amino-3-hydroxyheptadec-4-enyl] 2-(trimethylazaniumyl)ethyl phosphate



InChI	InChI=1S/C22H47N2O5P/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-22(25)21(23)20-29-30(26,27)28-19-18-24(2,3)4/h16-17,21-22,25H,5-15,18-20,23H2,1-4H3/b17-16+/t21-,22+/m0/s1
InChI Key	AAERQLSYRRXFMA-FYBNUODKSA-N
Canonical SMILES	CCCCCCCCCCCC/C=C/[C@H]([C@H](COP(=O)([O-])OCC[N+](C)(C)C)N)O
Stability	1 year
Storage	Storage at -20°C.
Applications	Lyso SM (d17:1) is utilized as a reference compound for sphingolipidomic profiling and structural annotation of lysosphingomyelin species. It supports LC-MS/MS analysis, quantitative lipid measurement, and investigations of sphingolipid metabolism and membrane lipid composition.