# **PRODUCT** INFORMATION



## L-threo Lysosphingomyelin (d18:1)

Item No. 24454

CAS Registry No.: Formal Name:	2-[[[[-2S-amino-3S-hydroxy-4E-octadecen-1-yl] oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-
Synonyms:	ethanaminium, inner salt L-threo Lyso SM(18:1),
Synonyms.	L-three Lyso shallows, $NH_2$
	L-threo Sphingosine-1-Phosphocholine (d18:1),
	L-threo-Sphingosylphosphorylcholine
MF:	$C_{23}H_{49}N_2O_5P$
FW:	464.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

L-three Lysosphingomyelin (d18:1) is supplied as a solid. A stock solution may be made by dissolving the L-threo lysosphingomyelin (d18:1) in the solvent of choice, which should be purged with an inert gas. L-threo Lysosphingomyelin (d18:1) is soluble in a 2:1 solution of chloroform:methanol.

### Description

L-three Lysosphingomyelin is an endogenous bioactive sphingolipid and isomer of lysosphingomyelin (Item No. 10007947).<sup>1</sup> It is an agonist of sphingosine-1-phosphate (S1P) receptors 1-3 (EC<sub>50</sub>s = 19.3, 313.3, and 131.8 nM for human S1P<sub>1-3</sub>, respectively). As this product is derived from a natural source, there may be variations in the sphingoid backbone.

#### Reference

1. Im, D.S., Clemens, J., Macdonald, T.L., et al. Characterization of the human and mouse sphingosine 1-phosphate receptor, S1P5 (Edg-8): Structure-activity relationship of sphingosine1-phosphate receptors. Biochemistry 40(46), 14053-14060 (2001).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/06/2022

## CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM