

FOCUS

BIOMOLECULES

Catalog # 10-1227

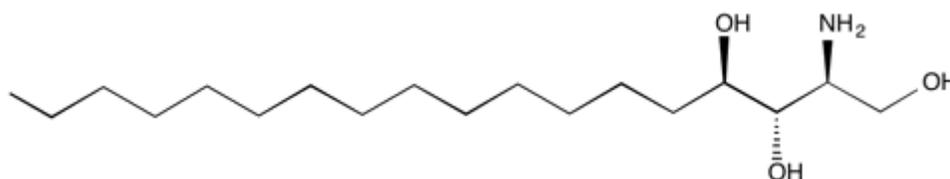
Phytosphingosine

CAS# 554-62-1

(2S,3R,4R)-Octadecane-1,2,3,4-tetraol

4-Hydroxysphinganine

Lot # X101711



Displays antibacterial activity¹. Can be taken up by *E. coli* and *S. aureus* and induce ultrastructural damage².

- 1) Fischer *et al.* (2012), *Antibacterial activity of sphingoid bases and fatty acids against Gram-positive and Gram-negative bacteria*; *Antimicrob. Agents Chemother.*, **56** 1157
- 2) Fischer *et al.* (2013), *Sphingoid bases are taken up by Escherichia coli and Staphylococcus aureus and induce ultrastructural damage*; *Skin Pharmacol. Physiol.*, **26** 36

PHYSICAL DATA

Molecular Weight:	317.52
Molecular Formula:	C ₁₈ H ₃₉ NO ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Ethanol (up to 2 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in ethanol may be stored at -20°C for up to 1 month.

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