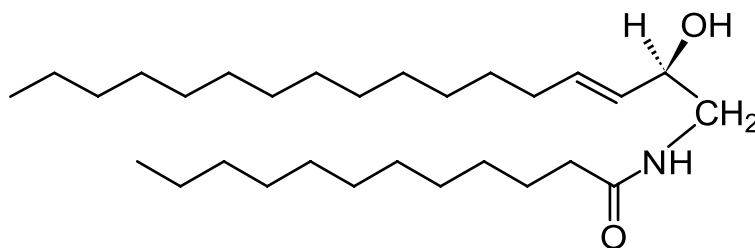


TECHNICAL DATA SHEET

N-lauroyl-D-erythro-1-desoxymethyl sphingosine (d17:1/12:0)

Catalog Number	860466	Physical state	Powder
Purity	> 99%	Transition temp.	No data
CAS		CMC	No data
Synonyms	N-C12-desoxyMe-sphingosine; N-dodecanoyl)-D-erythro-1-desoxymethyl-sphing-3-enine (d17:1/12:0)	pK_a	No data
Molec. Formula	C ₂₉ H ₅₇ NO ₂	TLC mobile phase	C:M*, 95:5, v/v
MW	451.768	Exact Mass	451.439
Percent composition	C 77.10% H 12.72% N 3.10% O 7.08%		
Stability	Store in <-20°C freezer for up to one year		
Solubility	Soluble in DMSO at 40°C + Sonication. Note: solidifies at room temperature in DMSO (i.e. keep warm with sonication). Soluble in methanol and ethanol:water, 95:5, at 40°C. Concentration should be 10 mg/mL.		
Web link	860466		

*C, chloroform; M, methanol



Description:

Commonly referred to as 1-desoxymethylsphingosine (1-desoxyMeDHCer), this product is the N-acylated form of 1-desoxymethylsphingosine, a potent inhibitor of sphingolipid metabolism. The biological activity of 1-desoxyMeDHCer is not clearly understood at this time.

References:

- Zitomer, NC *et al* (2009) Ceramide synthase inhibition by fumosin B1 causes accumulation of 1-deoxysphingosine. *J Biol Chem.* 284(8):4786-95
- Pruett, ST *et al* (2008). Thematic Review Series: Sphingolipids. Biodiversity of sphingoid bases ("sphingosines") and related amino alcohols. *J Lipid Res* 49:1621-39

Related products: [Sphingolipids](#)

MSDS: Available at www.avantilipids.com for Product Number 860466