



## Product Information

**Product ID** C1867

**CAS No.** 24696-26-2

### Chemical Name

**Synonym** N-Palmitoyl-D-Sphingosine, N-Hexadecanoyl-D- sphingosine, Palmitoyl Ceramide, D-erythro-Sphingosine, N-Palmitoyl-

**Formula** C<sub>16</sub> (C<sub>34</sub>H<sub>67</sub>NO<sub>3</sub>)

**Formula Wt.** 537.90

**Melting Point** 94-95°C

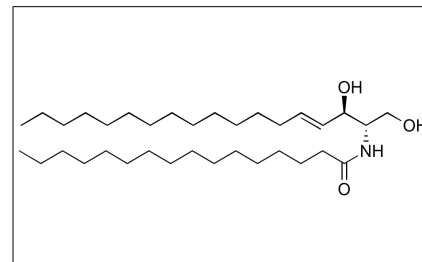
**Purity** ≥98%

**Solubility** Soluble in warm ethanol and isopropanol.

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Ceramide is an endogenous sphingosine and fatty acid-based waxy lipid; it is a component of sphingomyelin in the lipid bilayer of cells membranes. Ceramide is involved in signaling pathways for many cellular processes such as differentiation, proliferation, programmed cell death, and apoptosis. Ceramide levels may be used as a biomarker for inflammation or particular diseases.



**Bulk quantities available upon request**

Product ID	Size
C1867	5 mg
C1867	25 mg

**References** Hannun YA, Obeid LM. Principles of bioactive lipid signalling: lessons from sphingolipids. *Nat Rev Mol Cell Biol.* 2008 Feb;9(2):139-50. PMID: 18216770.

Wu D, Ren Z, Pae M, et al. Aging up-regulates expression of inflammatory mediators in mouse adipose tissue. *J Immunol.* 2007 Oct 1;179(7):4829-39. PMID: 17878382.

Haimovitz-Friedman A, Kan CC, Ehleiter D, et al. Ionizing radiation acts on cellular membranes to generate ceramide and initiate apoptosis. *J Exp Med.* 1994 Aug 1;180(2):525-35. PMID: 8046331.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.