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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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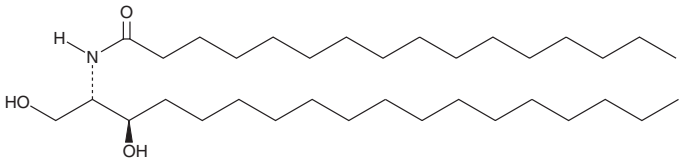
PRODUCT INFORMATION

C16 dihydro Ceramide (d18:0/16:0)

Item No. 24369

CAS Registry No.: 5966-29-0
Formal Name: N-[(1S,2R)-2-hydroxy-1-(hydroxymethyl) heptadecyl]-hexadecanamide
Synonyms: Cer(d18:0/16:0), Ceramide (d18:0/16:0), N-hexadecanoyl-D-*erythro*-Dihydrosphingosine, N-Palmitoyl Sphinganine
MF: $C_{34}H_{69}NO_3$
FW: 539.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

C16 dihydro Ceramide (d18:0/16:0) is supplied as a solid. A stock solution may be made by dissolving the C16 dihydro ceramide (d18:0/16:0) in the solvent of choice, which should be purged with an inert gas. C16 dihydro Ceramide (d18:0/16:0) is soluble in a 5:1 solution of chloroform:methanol. It is also soluble in hot ethanol and DMSO.

Description

C16 dihydro Ceramide is a bioactive sphingolipid and precursor in the *de novo* synthesis of C16 ceramide (d18:0/16:0) (Item No. 10681) that lacks the 4,5-*trans* double bond.[1] C16 dihydro Ceramide (0-46 nM) inhibits C16 ceramide-induced membrane permeabilization, measured as cytochrome *c* oxidation, in rat liver mitochondria in a concentration-dependent manner. It also inhibits C16 ceramide-induced channel formation in liposomes. C16 dihydro ceramide is biologically inactive as a single agent, lacking the ability to induce apoptosis, cytochrome *c* release, or channel formation in phospholipid membranes in the absence of C16 ceramide.

Reference

1. Stiban, J., Fistere, D., and Colombini, M. Dihydroceramide hinders ceramide channel formation: Implications on apoptosis. *Apoptosis* **11(5)**, 773-780 (2006).

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