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Produktinformation



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Zellkultur & Verbrauchsmaterial



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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

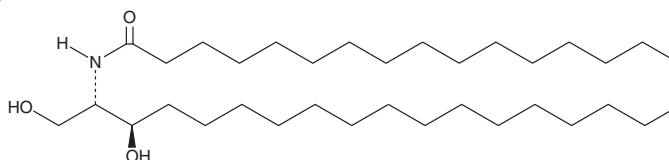
PRODUCT INFORMATION



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: C₃₄H₆₉NO₃
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).

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.

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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