SZABO SCANDIC

Part of Europa Biosite

# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## 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

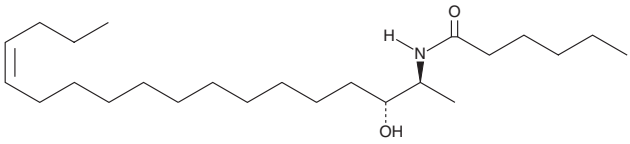
linkedin.com/company/szaboscandic

# PRODUCT INFORMATION

## C6 1-Deoxyceramide (m18:1(14Z)/6:0)

*Item No. 25493*

| | |
|---|---|
| **Formal Name:** | N-((2S,3R,Z)-3-hydroxyoctadec-14-en-2-yl)hexanamide |
| **Synonyms:** | Ceramide (m18:1/6:0), C6 Ceramide (m18:1/6:0), Cer(m18:1/6:0), N-hexanoyl-1-deoxy-4,5-dihydro-14Z-Sphingosine |
| **MF:** | $C_{24}H_{47}NO_2$ |
| **FW:** | 381.6 |
| **Purity:** | ≥95% |
| **Supplied as:** | A crystalline 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

C6 1-Deoxyceramide (m18:1(14Z)/6:0) is supplied as a crystalline solid. A stock solution may be made by dissolving the C6 1-deoxyceramide (m18:1(14Z)/6:0) in the solvent of choice. C6 1-Deoxyceramide (m18:1(14Z)/6:0) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of C6 1-deoxyceramide (m18:1(14Z)/6:0) in ethanol is approximately 30 mg/ml and approximately 20 mg/ml in DMSO and DMF.

C6 1-Deoxyceramide (m18:1(14Z)/6:0) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, C6 1-deoxyceramide (m18:1(14Z)/6:0) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. C6 1-Deoxyceramide (m18:1(14Z)/6:0) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

C6 1-Deoxyceramide (m18:1(14Z)/6:0) is a short-chain atypical ceramide containing a 1-deoxysphingosine (m18:1(14Z)) (Item No. 24515) backbone with a *cis* double bond at the 14-15 position rather than a *trans* double bond at the 4-5 position. 1-Deoxysphingolipids are formed when serine palmitoyltransferase condenses palmitoyl-CoA with alanine instead of serine during sphingolipid synthesis.[1,2]

### Reference


1. Steiner, R., Saied, E.M., Othman, A., *et al*. Elucidating the chemical structure of native 1-deoxysphingosine. *J. Lipid Res.* **57(7)**, 1194-1203 (2016).
2. Alecu, I., Othman, A., Penno, A., *et al*. Cytotoxic 1-deoxysphingolipids are metabolized by a cytochrome P450-dependent pathway. *J. Lipid Res.* **58(1)**, 60-71 (2017).





**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