



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

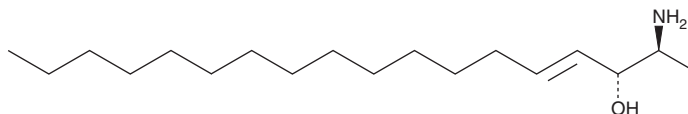
PRODUCT INFORMATION



1-Deoxysphingosine (m18:1(4E))

Item No. 24687

CAS Registry No.: 193222-34-3
Formal Name: 2S-amino-4E-octadecen-3R-ol
Synonyms: 1-deoxySO,
4E-1-Deoxysphingosine (m18:1)
MF: C₁₈H₃₇NO
FW: 283.5
Purity: ≥98%
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

1-Deoxysphingosine (m18:1(4E)) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-deoxysphingosine (m18:1(4E)) in the solvent of choice, which should be purged with an inert gas. 1-Deoxysphingosine (m18:1(4E)) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 1-deoxysphingosine (m18:1(4E)) in these solvents is approximately 2 and 10 mg/ml, respectively. 1-Deoxysphingosine (m18:1(4E)) is also miscible in ethanol.

Description

1-Deoxysphingosine (m18:1(4E)) is an atypical sphingolipid that contains a double bond at the 4E native position and is formed when serine palmitoyltransferase condenses palmitoyl-CoA with alanine instead of serine during sphingolipid synthesis.^{1,2} Plasma levels of 1-deoxysphingosine (m18:1(4E)) are increased in patients with chronic idiopathic axonal neuropathy (CIAP) and diabetic distal symmetrical polyneuropathy (DSPN).³

References

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).
3. Hube, L., Dohrn, M.F., Karsai, G., *et al.* Metabolic syndrome, neurotoxic 1-deoxysphingolipids and nervous tissue inflammation in chronic idiopathic axonal polyneuropathy (CIAP). *PLoS One* **12(1):e0170583** (2017).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/06/2020

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