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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



C24:1 Ceramide-d₇ (d18:1-d₇/24:1(15Z))

Item No. 22790

CAS Registry No.: 1840942-16-6
Formal Name: (Z)-N-((2S,3R,E)-1,3-dihydroxyoctadec-4-en-2-yl-16,16,17,17,18,18,18-d₇) tetracos-15-enamide

Synonyms: Cer(d18:1-d₇/24:1(15Z)), Ceramide-d₇ (d18:1-d₇/24:1(15Z)), Nervonic Ceramide-d₇, N-Nervonoyl-D-erythro-Sphingosine-d₇

MF: C₄₂H₇₄D₇NO₃

FW: 655.2

Chemical Purity: ≥95% (C24:1 Ceramide)

Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₇); ≤1% d₀

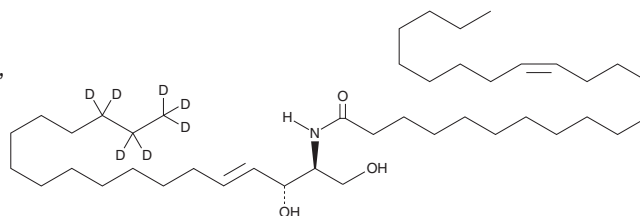
UV/Vis.: λ_{max}: 202 nm

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

C24:1 Ceramide-d₇ (d18:1-d₇/24:1(15Z)) is intended for use as an internal standard for the quantification of C24:1 ceramide (Item No. 62530) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

C24:1 Ceramide-d₇ (d18:1-d₇/24:1(15Z)) is supplied as a crystalline solid. A stock solution may be made by dissolving the C24:1 ceramide-d₇ (d18:1-d₇/24:1(15Z)) in the solvent of choice. C24:1 Ceramide-d₇ (d18:1-d₇/24:1(15Z)) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of C24:1 ceramide-d₇ (d18:1-d₇/24:1(15Z)) in these solvents is approximately 10, 0.02, and 5.5 mg/ml, respectively.

Description

C24:1 Ceramide-d₇ is an abundant naturally occurring ceramide.¹⁻³

References

1. Gu, Q., Kerwin, J.L., Watts, J.D., *et al.* Ceramide profiling of complex lipid mixtures by electrospray ionization mass spectrometry. *Anal. Biochem.* **244**(2), 347-356 (1997).
2. Clayton, R.B., Cooper, J.M., Curstedt, T., *et al.* Stimulation of erythroblast maturation *in vitro* by sphingolipids. *J. Lipid Res.* **15**(6), 557-562 (1974).
3. Krivit, W. and Hammarström, S. Identification and quantitation of free ceramides in human platelets. *J. Lipid Res.* **13**(4), 525-530 (1972).

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