



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

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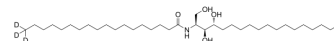
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Ceramide 3-d₃

Cat. No.:	HY-141582S
CAS No.:	1354806-91-9
Molecular Formula:	C ₃₆ H ₇₀ D ₃ NO ₄
Molecular Weight:	586.99
Target:	Isotope-Labeled Compounds; Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ceramide 3-d₃ (N-Stearoyl phytosphingosine-d₃) is deuterium labeled Ceramide 3. C18 Phytoceramide (t18:0/18:0) (Cer(t18:0/18:0)) is a bioactive sphingolipid found in the stratum corneum of *Saccharomyces cerevisiae*, wheat grain, and mammalian epidermis. Cer(t18:0/18:0) consists of a phytosphingosine backbone amine linked to a C18 fatty acid chain. Cer(t18:0/18:0) has the function of regulating apoptosis, cell differentiation, proliferation of smooth muscle cells and inhibition of mitochondrial respiratory chain. It also suppresses the expression of allergic cytokines IL-4, TNF-α, and transcription factors c-Jun and NF-κB in histone-stimulated mouse skin tissue. Formulations containing cer(t18:0/18:0) have been used as skin protectants in cosmetics as they reduce water loss and prevent epidermal dehydration and irritation^[1].

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

Caution: Product has not been fully validated for medical applications. For research use only.

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