



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) 

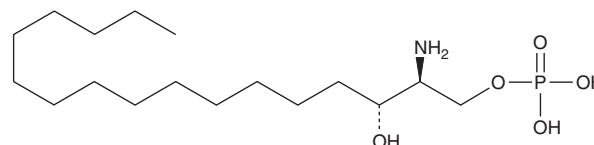
PRODUCT INFORMATION



Sphinganine-1-phosphate (d17:0)

Item No. 22501

CAS Registry No.: 474923-29-0
Formal Name: 2S-amino-1,3R-heptadecanediol, 1-(dihydrogen phosphate)
Synonyms: C17 Sphinganine-1-phosphate (d17:0), D-erythro-Sphinganine-C17-1-phosphate, dihydro-D-erythro-Sphingosine-C17-1-phosphate
MF: C₁₇H₃₈NO₅P
FW: 367.5
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

Sphinganine-1-phosphate (d17:0) is supplied as a crystalline solid. A stock solution may be made by dissolving the sphinganine-1-phosphate (d17:0) in the solvent of choice. Sphinganine-1-phosphate (d17:0) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of sphinganine-1-phosphate (d17:0) in these solvents is approximately 50 µg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of sphinganine-1-phosphate (d17:0) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of sphinganine-1-phosphate (d17:0) in PBS, pH 7.2, is approximately 50 µg/ml. We do not recommend storing the aqueous solution for more than one day.

Sphinganine-1-phosphate (d17:0) is also soluble in 0.3 M NaOH at approximately 4 mg/ml, but will precipitate at pH less than 7.5. The reconstituted material will be stable for 24 hours if stored at 4°C.

Description

Sphinganine-1-phosphate (d17:0) is a sphingolipid analog of sphinganine-1-phosphate (d18:0) (Item No. 22500) and sphingosine-1-phosphate (d18:1) (Item No. 62570) that has a 17-carbon base. Sphinganine-1-phosphate (d17:0) levels are lower in surgical and cadaver trabecular meshwork samples isolated from patients with primary open angle glaucoma compared with control samples.¹

Reference

1. Aljohani, A.J., Edwards, G., Guerra, Y., *et al.* Human trabecular meshwork sphingolipid and ceramide profiles and potential latent fungal commensalism. *Invest. Ophthalmol. Vis. Sci.* **55**(6), 3413-3422 (2014).

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, 04/01/2019

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