PRODUCT INFORMATION



ОН

• HCI

3-keto Sphinganine (d18:0) (hydrochloride)

Item No. 24380

CAS Registry No.: 25515-53-1

Formal Name: 2S-amino-1-hydroxy-3-

octadecanone, monohydrochloride

Synonyms: 3-dehydro Sphinganine,

3-keto Dihydrosphingosine,

3-keto Sphinganine

MF: C₁₈H₃₇NO₂ • HCl

FW: 336.0 **Purity:** ≥98% Supplied as: A solid -20°C Storage: Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3-keto Sphinganine (d18:0) (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the 3-keto sphinganine (d18:0) (hydrochloride) in the solvent of choice, which should be purged with an inert gas. 3-keto Sphinganine (d18:0) (hydrochloride) is soluble in organic solvents such as ethanol, methanol, and chloroform.

Description

3-keto Sphinganine (d18:0) is an intermediate in the biosynthesis of C18 ceramide (d18:1/18:0) (Item No. 19556).¹ It is a lyso-sphingolipid formed by the condensation of L-serine and palmitoyl-CoA by serine palmitoyl transferase (SPT). Vitamin K deficiency inactivates SPT resulting in a decrease in the production of 3-keto sphinganine (d18:0) and other sphingolipids.²

References

- 1. Bartke, N. and Hannun, Y.A. Bioactive sphingolipids: Metabolism and function. J. Lipid Res. 50(Suppl), S91-S96 (2009).
- 2. Batheja, A.D., Uhlinger, D.J., Carton, J.M., et al. Characterization of serine palmitoyltransferase in normal human tissues. J. Histochem. Cytochem. 51(5), 687-696 (2003).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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

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, 12/13/2022

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