

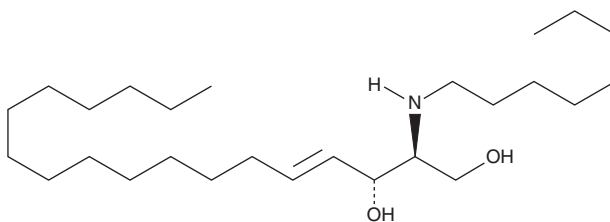
Product Information



C-8 Ceramine

Item No. 62545

CAS Registry No.: 170926-06-4
Formal Name: N-octylsphingosine
MF: C₂₆H₅₃NO₂
FW: 411.7
Purity: ≥98%
Stability: ≥6 months at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that C-8 ceramine be stored as supplied at -20°C. It should be stable for at least six months.

C-8 Ceramine is supplied as a crystalline solid. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of C-8 ceramine in these solvents is approximately 20 mg/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. If an organic solvent-free solution of C-8 ceramine is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of C-8 ceramine in PBS (pH 7.2) is approximately 50 µg/ml. We do not recommend storing the aqueous solution for more than one day.

C-8 Ceramine is an analog of C-8 ceramide in which the carbonyl group of the ceramide is replaced by a methylene group. At a concentration of 10µM, C-8 ceramine induces maximal DNA fragmentation in U937 cells after 6 hours of incubation, compared to 12 hours for C-8 ceramide.¹

Reference

1. Karasavvas, N., Erukulla, R.K., Bittman, R., *et al.* Stereospecific induction of apoptosis in U937 cells by N-octanoyl-sphingosine stereoisomers and N-octyl-sphingosine. The ceramine amide group is not required for apoptosis. *Eur. J. Biochem.* **236**, 729-737 (1996).

Related Products

C-2 Ceramide - Item No. 62510 • C-6 Ceramide - Item No. 62525 • C-6 NBD Ceramide - Item No. 62527 • Nervonic Ceramide - Item No. 62530 • Lignoceric Ceramide - Item No. 62535 • C-8 Ceramide - Item No. 62540 • C-8 Ceramide-1-phosphate - Item No. 62547 • AV-Ceramide - Item No. 9000753

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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