# C2 Ceramide

#### Cell-permeable ceramide analog

N-Acetylsphingosine is a biologically active, cell-permeable ceramide analog. It inhibits cell proliferation and induces monocytic differentiation of HL-60 cells and induces apoptosis. It stimulates protein phosphatase 2A4, activates MAP kinase and SAP kinase and induces PKC $\delta$  and  $\epsilon$  translocation. Physiological levels of C2 ceramide, produced by the action of a PAF:sphingosine CoA-independent transacetylase, have been detected in HL-60 cells.

Citations: 14

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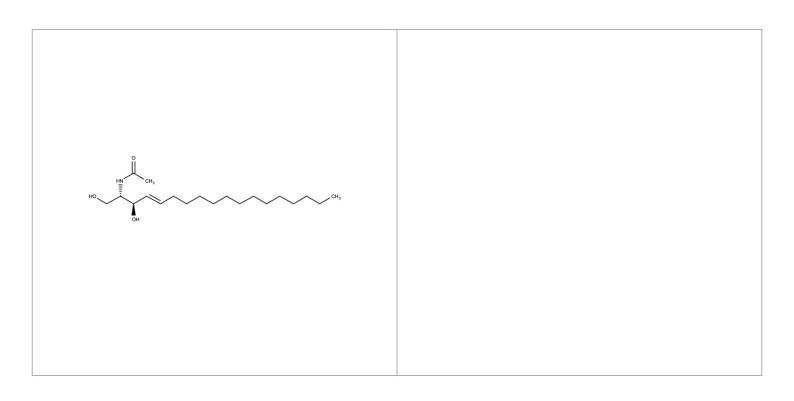
## **Ordering Information**

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BML-SL100-0005	5mg
BML-SL100-0025	25mg

Manuals, SDS & CofA

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#### **Handling & Storage**

**Use/Stability** As indicated on product label or CoA when stored as recommended. Stable for at least

1 year after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up

to 3 months at -20°C.

Long Term Storage -20°C

**Shipping** Ambient Temperature

#### Regulatory Status RUO - Research Use Only

#### **Product Details**

Alternative Name N-Acetyl-D-erythro-sphingosine

Appearance White solid.

CAS 3102-57-6

Couple Target Jnk, MAPK, Serine/threonine-protein phosphatase

Couple Type Activator

Formula  $C_{20}H_{39}NO_3$ 

**MW** 341.5

Purity ≥98% (TLC)

**Solubility** Soluble in 100% ethanol (>25mg/ml) or DMSO (>50mg/ml).

### Technical Info / Product

Notes

C2 ceramide may precipitate from aqueous media, particularly those lacking serum or serum albumin, at concentrations ~20µM or higher. To avoid this problem, a 1:1 complex of C2 Ceramide with BSA may be prepared as follows: Dissolve C2 ceramide to 200mM (68.3mg/ml) in anhydrous DMSO. Dissolve fatty acid-free BSA in water to 66mg/ml (1mM). Dilute the ceramide/DMSO stock 200-fold into the BSA solution, with constant stirring. A precipitate will form at first, but will dissolve after ~30 minutes of stirring at room temperature. Alternatively, a solution of C2 Ceramide/BSA may be prepared directly, without making a DMSO stock: 1) prepare a 20% w/v stock of BSA in water (3mM); 2) use the BSA stock to dissolve the solid C2 Ceramide at 1.02mg/ml



ENZO LIFE SCIENCES (3mV proper Sales office dissolution of the ceraminal and selection of the

Phone: 800.942.0430 room reminder sture

eu@enzolifesciences.com

Phone: +32 3 466 0420 infobe@enzolifesciences.com

fr@enzolifesciences.com de