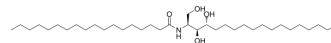


## Ceramide 3

Cat. No.:	HY-141582
CAS No.:	34354-88-6
Molecular Formula:	C <sub>36</sub> H <sub>73</sub> NO <sub>4</sub>
Molecular Weight:	583.97
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

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- $\alpha$ , and transcription factors c-Jun and NF- $\kappa$ B 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.

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

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