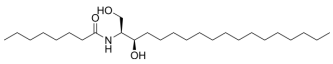
C8 Dihydroceramide

Cat. No.:	HY-119312
CAS No.:	145774-33-0
Molecular Formula:	$C_{26}H_{53}NO_3$
Molecular Weight:	427.7
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	C8 Dihydroceramide is a negative control of C8 Ceramide. C8-Ceramide (N-Octanoyl-D-erythro-sphingosine) is a cell-permeable analog of naturally occurring ceramides. C8-Ceramide has anti-proliferation properties and acts as a potent chemotherapeutic agent. C8-Ceramide stimulates dendritic cells to promote T cell responses upon virus infections. C8-Ceramide induces slight activation of protein kinase (PKC) in vitro[1][2][3][4].
In Vitro	C8-dihydro-ceramide had no effect on cell viability in any of the cell lines tested[5]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rebeca López-Marure , et al. Ceramide promotes the death of human cervical tumor cells in the absence of biochemical and morphological markers of apoptosis. Biochem Biophys Res Commun. 2002 May 10;293(3):1028-36.

[2]. Yuli C. Chang, et al. Exogenous C8-Ceramide Induces Apoptosis by Overproduction of ROS and the Switch of Superoxide Dismutases SOD1 to SOD2 in Human Lung Cancer Cells. Int J Mol Sci. 2018 Oct; 19(10): 3010.

[3]. H W Huang, et al. Ceramides modulate protein kinase C activity and perturb the structure of Phosphatidylcholine/Phosphatidylserine bilayers. Biophys J. 1999 Sep; 77(3): 1489-1497.

[4]. Lan Weiss, et al. Ceramide contributes to pathogenesis and may be targeted for therapy in VCP inclusion body myopathy. Hum Mol Genet. 2021 Jan 7;ddaa248.

[5]. Rebeca López-Marure, et al. Ceramide promotes the death of human cervical tumor cells in the absence of biochemical and morphological markers of apoptosis. Biochem Biophys Res Commun. 2002 May 10;293(3):1028-36.

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