A Review Of Ceramide Analogs As Potential Anticancer Agents

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In this review, we exhibited a full scroll of anti-cancer ceramide analogs as down-stream receptor agonists and ceramide metabolizing enzyme inhibitors. Keywords: Ceramide, Sphingosine, Sphingolipid signaling pathway, Ceramidase, Glucosylceramide synthase, Anticancer agents, Enzyme inhibitors Anti-cancer targets in the ceramide signaling pathway

~~A review of ceramide analogs as potential anticancer agents~~
A review of ceramide analogs as potential anticancer agents. Department of Chemistry, Xavier University of Louisiana, 1 Drexel Drive, New Orleans, LA 70125, USA. Ceramide serves as a central mediator in sphingolipid metabolism and signaling pathways, regulating many fundamental cellular responses. It is referred to as a 'tumor suppressor lipid', since it powerfully potentiates signaling events that drive apoptosis, cell cycle arrest, and autophagic responses.

~~A review of ceramide analogs as potential anticancer ...~~
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~~A review of ceramide analogs as potential anticancer ...~~
All evidence currently points to the fact that the upregulation of ceramide levels is a promising anticancer strategy. In this review, we exhibit many anticancer ceramide analogs as downstream...

~~A review of ceramide analogs as potential anticancer ...~~
Recently, a series of ceramide analogs was synthesized and analysed for the growth inhibitory effect on Chlamydia trachomatis12. Moreover, several synthetic dihydrosphingosine analogs have been demonstrated to be active against multi-drug resistant strains of Mycobacterium tuberculosis13.

~~Antibacterial activity of ceramide and ceramide analogs ...~~
A series of ceramide analogues bearing the fluorophore boron dipyrromethene difluoride (BODIPY) were synthesized and evaluated as vital stains for the Golgi apparatus, and as tools for studying lipid traffic between the Golgi apparatus and the plasma membrane of living cells. Studies of the spectral properties of several of the BODIPY- labeled ceramides in lipid vesicles demonstrated that the fluorescence emission maxima were strongly dependent upon the molar density of the probes in the ...

~~A novel fluorescent ceramide analogue for studying ...~~
Experiments using (non-fluorescent) short-chain analogs of ceramide in permeabilized cells indicate that the export of nascent SM from the Golgi apparatus requires ATP and cytosol and occurs via a GTP-dependent mechanism that is also consistent with vesicle budding from the organelle (J.B. Helms, 1990). Export of nascent SM from the Golgi is blocked at reduced temperatures such as 15°C and by the non-hydrolyzable GTP analog, GTP?S.

~~Ceramide - an overview | ScienceDirect Topics~~
A series of ceramide analogues bearing the fluorophore boron dipyrromethene difluoride (BODIPY) were synthesized and evaluated as vital stains for the Golgi apparatus, and as tools for studying lipid traffic between the Golgi apparatus and the plasma membrane of living cells. Studies of the spectral properties of several of the BODIPY-labeled ceramides in lipid vesicles demonstrated that the fluorescence emission maxima were strongly dependent upon the molar density of the probes in the ...

~~A novel fluorescent ceramide analogue for studying ...~~
Golgi staining by two fluorescent ceramide analogues in cultured fibroblasts requires metabolism. Eur. J. Cell Biol. 68(2), 113–121 (1995).Medline, CAS, Google Scholar; 15 Makiyama T, Nakamura H, Nagasaka N et al. Trafficking of acetyl-C16-ceramide-NBD with long-term stability and no cytotoxicity into the Golgi complex. Traffic 16(5), 476 ...

~~A series of ceramide analogs modified at the 1-position ...~~
Synthesis of a Novel Ceramide Analogue and its Use in a High?Throughput Fluorogenic Assay for Ceramidases. Carmen Bedia Dr. Research Unit on BioActive Molecules, Departamento de Química Orgánica Biológica, Instituto de Investigaciones Químicas y Ambientales de Barcelona, CSIC, Jordi Girona 18, 08034 Barcelona, Spain, Fax: (+34) 93 ...

~~Synthesis of a Novel Ceramide Analogue and its Use in a ...~~
A synthesis for fluorescent analogs of ceramide-1-phosphate bearing 9-anthrylvinyl or 4,4-difluoro-3a,4a-diaza-s-indacene-8-yl (Me 4-BODIPY) fluorophore at co-position of fatty acid residue was carried out.The key stage of the synthesis is hydrolysis of corresponding sphingomyelins catalyzed by phospholipase D from Streptomyces chromofuscus; the enzymatic yield has been raised to 50–70% by ...

~~An Expedient Synthesis of Fluorescent Labeled Ceramide-1 ...~~
Ceramides, known as 'tumor suppressor lipids', regulate the anti-cancer signals implicated in apoptosis, cell cycle arrest, and autophagic responses. 1,2 Exposure to chemotherapeutic agents and radiation therapy lead to increased levels of endogenous ceramide, thereby inducing apoptosis through mitochondrial or non-mitochondrial pathways. 3 Similarly, synthetic ceramide analogs have been shown toimitate ceramide action on its downstream targets, leading to apoptosis and cell cycle arrest ...

~~3-Ketone-4,6-diene ceramide analogs exclusively induce ...~~
1. J Lipid Res. 2018 Mar;59(3):515-530. doi: 10.1194/jlr.M082354. Epub 2018 Jan 17. A search for ceramide binding proteins using bifunctional lipid analogs yields CERT-related protein StarD7.

~~A search for ceramide binding proteins using bifunctional ...~~
A survey on the role played by ceramide within the sphingolmyelin pathway is here reported, taking into account its importance as an intracellular effector molecule in apoptosis. Recently, several analogs of ceramide, able to pass the cell membrane and then to induce apoptosis, have been developed as a new potential approach in anticancer therapy.

~~Ceramide analogues in apoptosis: a new strategy for ...~~
Novel sphingolipid analogs inhibit the hydrolysis of ceramide or its conversion to complex sphingolipids. Synthetic analogs were effective in killing cancer cells in vitro and in vivo. Analogs were tested for two therapeutic approaches for sphingolipidoses: substrate reduction therapy and chaperone therapy. Synthetic fluorescent sphingolipids were developed for the analysis of sphingolipid metabolism.

~~Cancer and sphingolipid storage disease therapy using ...~~
Visualization of Ceramide-Associated Proteins in Ceramide-Rich Platforms Using a Cross-Linkable Ceramide Analog and Proximity Ligation Assays With Anti-ceramide Antibody Xue Jiang 1,2 , Zhihui Zhu 2 , Haiyan Qin 2 , Priyanka Tripathi 2 , Liansheng Zhong 2,3 , Ahmed Elsherbini 2 , Sanjib Karki 2 , Simone M. Crivelli 2 , Wenbo Zhi 4 , Guanghu Wang 2 , Stefanka D. Spassieva 2 and Erhard Bieberich 2*

~~Frontiers | Visualization of Ceramide-Associated Proteins ...~~
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~~A Review Of Ceramide Analogs As Potential Anticancer Agents~~
To determine whether solenopsin and analogs act as ceramide analogs, we examined the effect of solenopsin and analogs on two stereotypic sites of ceramide activity, namely at lipid rafts and mitochondria.