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Ceramide signaling in cancer and stem cells

Ceramide & its derivatives: from metabolism to cell signaling. The structural core of ceramide is the sphingoid base sphingosine (Figure 1), a lipid that is synthesized from the amino acid serine and the activated fatty acid palmitoyl-CoA (Figure 2).

Ceramide - Wikipedia

Ceramides are a family of waxy lipid molecules. A ceramide is composed of sphingosine and a fatty acid. Ceramides are found in high concentrations within the cell membrane of eukaryotic cells, since they are component lipids that make up sphingomyelin, one of the major lipids in the lipid bilayer.

Ceramide signaling in apoptosis | British Medical Bulletin ...

In several cell systems ceramide links to the stress-activated protein kinase (SAPK)/c-jun kinase (JNK) cascade to signal apoptosis. The engagement of the sphingomyelin pathway in signaling apoptosis is tightly regulated by anti-apoptotic control mechanisms, and the balance between pro- and anti-apoptotic systems determines the magnitude of the apoptotic response in vitro and in vivo .

Lipid signaling - Wikipedia

Lipid signaling, broadly defined, refers to any biological signaling event involving a lipid messenger that binds a protein target, such as a receptor, kinase or phosphatase, which in turn mediate the effects of these lipids on specific cellular responses.

What Is Ceramide? | Sciencing

A ceramide is a lipid molecule, which are naturally occurring molecules such as sterols and fats. Lipid s have one of three functions -- they make up part of the structure of a cell's membrane, storing energy or signaling actions in cells.

Download Ceramide Signaling by Anthony H. Futerman PDF ...

By Anthony H. Futerman. The quantity assembles present info at the position of ceramide as a signalling molecule in sixteen chapters written by way of prime employees during this zone. particular cognizance is given to mechanisms of study of ceramide and its biophysical homes, on enzymes of ceramide metabolism and down-stream objectives of Ceramide Signaling and p53 Pathways - ScienceDirect Ceramides, important players in signal transduction, interact with multiple cellular pathways, including p53 pathways. However, the relationship between ceramide and p53 is very complex, and mechanisms underlying their

coregulation are diverse and not fully characterized.

The sphingolipid salvage pathway in ceramide metabolism ...

Sphingolipids are important components of eukaryotic cells, many of which function as bioactive signaling molecules. Of these, ceramide is a central metabolite and plays key roles in a variety of cellular responses, including regulation of cell growth, viability, differentiation, and senescence.

Ceramide signaling in apoptosis | Request PDF

The sphingomyelin pathway is a ubiquitous, evolutionarily conserved signaling system initiated by hydrolysis of the plasma membrane phospholipid sphingomyelin to generate ceramide.

Ceramides: The Skin's Natural Barrier Protectant | Dermveda

Treatments with Ceramides With the current understanding of the role of ceramides in skin barrier function and skin health, treatments involve restoring skin ceramide levels are especially of interest.

Apoptosis and survival - Ceramides signaling pathway ...

Web-lab validated real-time PCR primer assays for your biological pathway of interest. Select your gene target of interest using an interactive pathway map, and select your plate.

Ceramide Signaling Pathway - Target Explorer

Ceramide Signaling Description Ceramide is the second messenger that can be generated either by hydrolysis of SM through SM-specific PLC termed SMases or by de novo synthesis through the enzyme Ceramide Synthase.

Ceramide: a Key Signaling Molecule in a Guinea Pig Model ...

Ceramide: a Key Signaling Molecule in a Guinea Pig Model of Allergic Asthmatic Response and Airway Inflammation Emanuela Masini, Lucia Giannini, Silvia Nistri, Lorenzo Cinci, Rosanna Mastroianni.