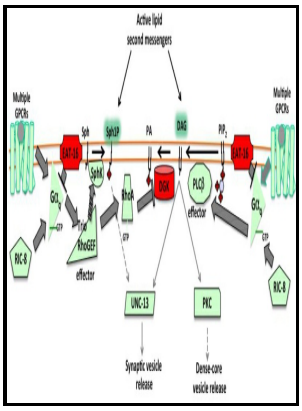
Lipid second messengers

Plenum Press - Phospholipases



Description: Scientists in lipid biochemistry research have increasingly recognized the role of lipids as signaling molecules, aside from their importance in forming cellular membranes and storing energy. This book provides the latest findings on a wide variety of complex lipids in cells that function either as intracellular or intercellular messengers. International investigators present current data on the most extensively studied examples of both intracellular and intercellular messengers generated from lipids, and describe their basic mechanisms, which also utilize receptors in the G-protein-coupled family. The in-depth discussions address such topics as lipid signaling for protein kinase C activation, phosphatidic acid and lyso-phosphatidic acid, ceramide as a messenger, bioactive properties of Sphingosine and structurally related compounds, platelet-activating factor and PAF-like mimetics, and prostaglandins and related compounds. Lipid Second Messengers is an up-to-date reference on developments in the expanding field of lipid-derived signals and will be of interest to biochemists, physiologists, pharmacologists, geneticists, and biologists.

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Fibers -- Congresses
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Second messengers (Biochemistry)
Cellular signal transduction.
Cell receptors.
Lipids -- Analysis.
G-Proteins.
Signal Transduction.
Cell Communication.
Second Messenger Systems.
Lipids.Lipid second messengers

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Shirley Institute publication -- S.28
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Handbook of lipid research -- v. 8.Lipid second messengers
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Production and function of lipid second messengers in proliferating and differentiated neuroblastoma cells

Joseph, CK, Byun, HS, Bittman, R and Kolesnik, RN 1993 Substrate recognition by ceramide-activated protein kinase. A common structural feature of these enzymes is a lipase consensus sequence, Gly-x-Ser-x-Gly, containing the active site serine and the x denotes any amino acid.

Production and function of lipid second messengers in proliferating and differentiated neuroblastoma cells

Furthermore, the presence of monomeric G-protein RhoA in purified ROS has been reported.

Phospholipid signalling and lipid

These figures summarize findings previously reported by Dr. B Activation of PI3K following engagement of growth factor receptors such as insulin receptor generates the phospholipid PIP 3, which recruits the kinases PDK1 and Akt to the membrane.

A versatile lipid second messenger

The opening of one calcium channel can therefore promote a positive feed-forward reaction in which more calcium ions enter the cytosol. It has been shown that PLD1 activation by Rho family small GTPases is synergistic with ARF, this being consistent with the notion that the binding site of PLD1 for ARF is different from that for the Rho family. PKC represents a family of nine genes grouped into three families.

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