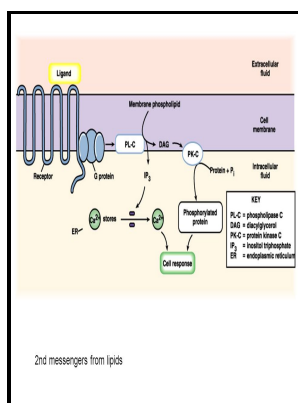


Lipid second messengers

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.



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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Handbook of lipid research -- v. 8.Lipid second messengers
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Tags: #Production #and #function #of
#lipid #second #messengers #in
#proliferating #and #differentiated
#neuroblastoma #cells

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

PLD2 expression in retina has not been reported to date. The products of phospholipase reactions are an integral component of a large number of signaling and regulatory pathways. The heterogeneity of this gene family is similar to that of PKC and PLC families.

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

The mammalian extracellular phospholipase A 1 enzymes include phosphatidylserine selective phospholipase A 1, membrane-associated phosphatidic acid selective phospholipase A 1 α , membrane-associated phosphatidic acid selective phospholipase A 1 β , pancreatic lipase, lipoprotein lipase, hepatic lipase, endothelial lipase, and pancreatic lipase-related proteins-1, -2, and -3 Table 1. Phosphorylation of rhodopsin seems to prevent further activation of heterotrimeric Gt and thus attenuates visual excitation. It was also observed that ROS PKA activation increases oleate incorporation into PS and PI whereas PC, PE, and PA acylation undergo no changes.

Phospholipases

PI 4,5 P2 is an essential cofactor in ARF-dependent activation of PLD1 , ,.

Phospholipid signalling and lipid

Phospholipid signalling is mediated by phospholipid breakdown products generated by phospholipases. Characterization of two alternately spliced forms of phospholipase D1.

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