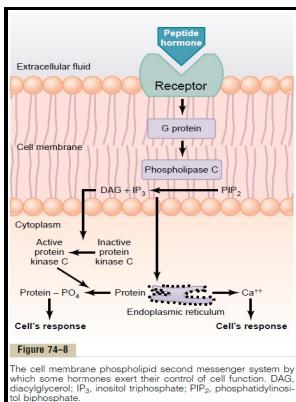


# Lipid second messengers

## Plenum Press - Production and function of lipid second messengers in proliferating and differentiated neuroblastoma cells

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.



**Figure 74-8**  
The cell membrane phospholipid second messenger system by which some hormones exert their control of cell function. DAG, diacylglycerol; IP<sub>3</sub>, inositol triphosphate; PIP<sub>2</sub>, phosphatidylinositol bisphosphate.

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

- Shirley Institute publication -- S.28
- Shirley Institute publication ; S28
- Handbook of lipid research -- v. 8. Lipid second messengers
- Notes: Includes bibliographical references and index.
- This edition was published in 1996

Tags: #Lipid #Second #Messengers

### A versatile lipid second messenger

Our understanding of the large array of phospholipase family members and their regulation has enhanced tremendously over the past decades. The findings of LaLonde et al.

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

Bell, RM and Burns, DJ 1991 Lipid activation of protein kinase. The results of

studies using PTx and cholera toxin CTx coincide with these observations. G s and G i can thus couple binding of ligands to GPCRs with either activation or inhibition of adenylyl cyclase, depending on the receptor type.

### Phospholipid signalling and lipid

Upon phosphorylation of the MARKS protein, it dissociates from the membrane into the cytosol 2.

### Second Messengers

However, GTPyS added to light-activated ROS did not further enhance the light activation of this phospholipase. Verhey, SD, Gaiser, C and Lomax, TL 1993 Protein kinases in zucchini.

### Lipid Second Messengers



Filesize: 44.44 MB

The signal can be terminated by the action of phosphodiesterase PDE enzymes. Once phosphorylated, Akt is locked in an active and signaling-competent conformation and can be released from the plasma membrane to signal throughout the cell, including the nucleus.

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