

Signal-activated phospholipases

R.G. Landes Co. - Signal transduction, membrane receptors and their ligands, G

Description: -

-

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Cellular signal transduction.

Enzyme activation.

Phospholipases.Signal-activated phospholipases

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People to know

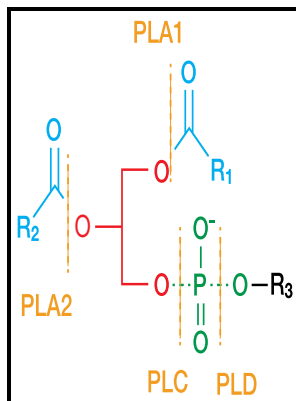
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Molecular biology intelligence unit (Unnumbered)

Molecular biology intelligence unitSignal-activated phospholipases

Notes: Includes bibliographical references and index.

This edition was published in 1994



Filesize: 62.33 MB

Oxidant

In the upper half, ABP1 is the relevant receptor and reactions are assembled which occur faster than in 10 min, like the activation of phospholipase A and D.

Oxidant

The medium was then changed to HEPES buffer of the following composition: 134 mM NaCl, 4. Addition of PIP 2 at physiological concentrations stimulates both membrane-associated and partially purified PLD activity.

Phospholipases: An Overview

Furthermore, signal transduction mechanisms and networks include a number of characteristic enzymes, most prominently protein kinases and protein phosphatases.

Microbial phospholipases

In phospholipase C-γ1a, two SH2, one SH3 and a split PH domain are indicated in aqua, light blue, and green, respectively.

Signal transduction, membrane receptors and their ligands, G

Tags: #Signal

Microbial phospholipases

The pre-mRNA of PLC can also be subject to differential splicing such that a mammal may have up to 30 PLC enzymes. MARKS co-localizes with PIP 2 on the membrane.

They are continuous functional epithelial cells derived from normal rat thyroid as originally described by Ambesi-Impimbato et al. Tyrosine phosphorylation is involved in receptor coupling to phospholipase D but not phospholipase C in the human neutrophil.

Oxidant

The Ser residue functions as a nucleophile in the reaction to form an enzyme-acyl intermediate. Before becoming active in digestion, the proform of PLA₂ is activated by Trypsin. The secreted phospholipase A₂ enzymes include Groups I through III, V, and IX through XIV phospholipase A₂ Table 2 and they share common features such as low molecular weight 13—15 kDa , a catalytic His-Asp dyad, Ca²⁺ bound in the active site, and conserved disulfide bonds Fig.

Phospholipase

The lack of a direct effect on PKC, and the abilities of H-89 and DDA to block the stimulation of PLD by forskolin or dbcAMP indicates that they produce their effects via PKA activation. In contrast to most other sPLA₂s, these enzymes contain only four conserved Cys residues forming two disulfide bonds. Layer of lipid phosphates - yellow dots.

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