

# Signal-activated phospholipases

R.G. Landes Co. - Phospholipases: An Overview

Description: -

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Cellular signal transduction.

Enzyme activation.

Phospholipases.Signal-activated phospholipases

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People to know

Documento

Molecular biology intelligence unit (Unnumbered)

Molecular biology intelligence unitSignal-activated phospholipases

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Frontiers

Following pretreatment with H-89 or dideoxyadenosine, the TSH-mediated PLD response was also significantly reduced.

**MetaCyc phospholipases**

They are postulated to carry out functions downstream from pPLA in auxin signal transduction.

**Signal**

Unfortunately, no enzyme inhibitors are available which can distinguish between sPLA 2 and pPLA and could be used to test functions depending on either one. Mammalian patatin domain containing proteins: a family with diverse lipolytic activities involved in multiple biological functions. Normally, phosphatidylserine is on the cytosolic side of the plasma membrane but through various stimuli phosphatidylserine can be exposed to the outer leaflet of the plasma membrane.

**Crosstalk among multiple signal**

Although TSH-mediated inositol phosphate generation occurred with similar concentrations of TSH that led to PLD activation, 10-fold higher TSH concentrations were required to increase intracellular  $Ca^{2+}$ . A central theme in signal transduction is calcium. This portion of DAG production could be catalyzed by a phosphatidylcholine-specific phospholipase C, although the contribution of this enzyme to mammalian signal transduction remains controversial.

Tags: #Signal #transduction, #membrane #receptors #and #their #ligands, #G

**Ca<sup>2+</sup> inhibits guanine nucleotide**

The type of enzymes participating in such networks is similar if not homologous in eukaryotic organisms, which means that generalizations can be drawn.



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