Acyl chain remodelling of PG

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references


Reactome database release: 72

This document contains 1 pathway and 10 reactions (see Table of Contents)

https://www.reactome.org
Acyl chain remodelling of PG

Stable identifier: R-HSA-1482925

In the acyl chain remodelling pathway (Lands cycle), phosphatidylglycerol (PG) is hydrolyzed by phospholipases and subsequently reacylated by acyltransferases. These cycles modify the fatty acid composition of glycerophospholipids to generate diverse molecules asymmetrically distributed in the cell membrane. The events occur additionally in the inner mitochondria membranes (IM) as well as in the endoplasmic reticulum (ER) membrane (Ghomashchi et al. 2010, Singer et al. 2002, Cao et al. 2008, Yang et al. 2004, Nie et al. 2010).

Literature references


Editions

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https://www.reactome.org
PG is hydrolyzed to 1-acyl LPG by PLA2[1]

**Location:** Acyl chain remodelling of PG

**Stable identifier:** R-HSA-1482900