

# PLC gamma 2-mediated PIP2 hydrolysis

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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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

## Literature references

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Reactome database release: 77

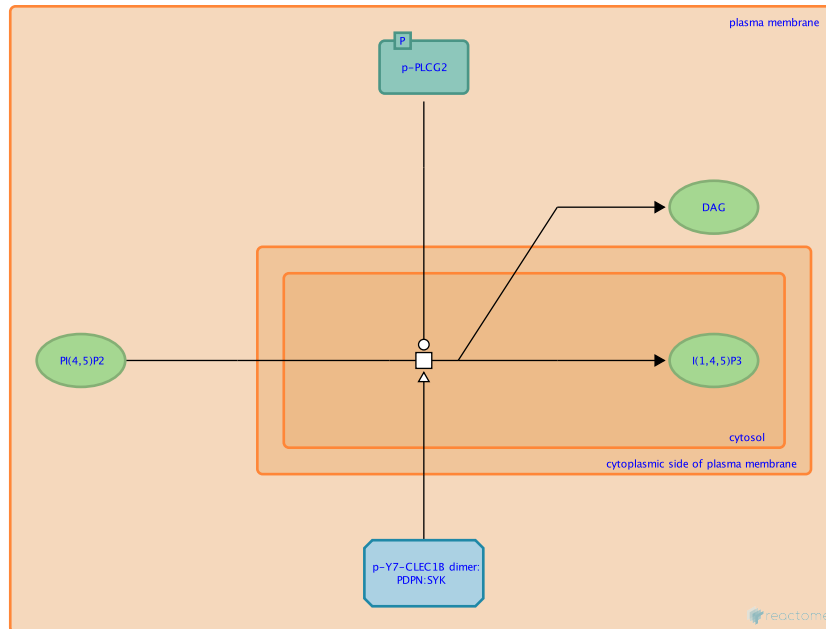
This document contains 1 reaction ([see Table of Contents](#))

## PLC gamma 2-mediated PIP2 hydrolysis [↗](#)

**Stable identifier:** R-HSA-114689

**Type:** transition

**Compartments:** cytosol, plasma membrane



At the beginning of this reaction, 1 molecule of '1-Phosphatidyl-D-myo-inositol 4,5-bisphosphate' is present. At the end of this reaction, 1 molecule of '1D-myo-Inositol 1,4,5-trisphosphate', and 1 molecule of '1,2-Diacylglycerol' are present.

This reaction is mediated by the 'phospholipase C activity' of 'Phosphorylated phospholipase C gamma 2'.

### Literature references

Banno, Y., Yada, Y., Nozawa, Y. (1988). Purification and characterization of membrane-bound phospholipase C specific for phosphoinositides from human platelets. *J Biol Chem*, 263, 11459-65. [↗](#)

### Editions

2009-09-09

Edited

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