pp1a cleaves itself

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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: 77

This document contains 1 reaction (see Table of Contents)
The crucial step of autocleavage of pp1a involves the formation of an "intermediate" pp1a dimer which has weak protease activity. This "embedded" 3CLp liberates itself by cleaving the ends off its monomer in trans. Only after that the cleaved 3CLp forms a dimer, the most efficient form of the enzyme (Hsu et al, 2005; Chen et al, 2010; Muramatsu et al, 2016).

**Literature references**


**Editions**

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