Prefoldin mediated transfer of substrate to CCT/TriC

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21/07/2019
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


Reactome database release: 69

This document contains 1 pathway and 2 reactions (see Table of Contents)

https://www.reactome.org
Prefoldin mediated transfer of substrate to CCT/TriC

**Stable identifier:** R-HSA-389957

**Compartments:** cytosol

Unfolded actins and tubulins bound to prefoldin are transferred to CCT via a docking mechanism (McCormack and Willison, 2001).

**Literature references**


**Editions**

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**unfolded actin/tubulin associates with prefoldin**

**Location:** Prefoldin mediated transfer of substrate to CCT/TriC

**Stable identifier:** R-HSA-389980

**Type:** binding

**Compartments:** cytosol

**Inferred from:** unfolded actin/tubulin associates with prefoldin (Bos taurus)

During the synthesis of actin and tubulin, the nascent ribosome-associated chains bind to the heteromeric chaperone protein, prefoldin (PFD) (Hansen et al., 1999).

**Followed by:** Actin/tubulin:prefoldin complex associates with CCT/TriC

**Editions**

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Actin/tubulin:prefoldin complex associates with CCT/TriC

Location: Prefoldin mediated transfer of substrate to CCT/TriC

Stable identifier: R-HSA-389970

Type: transition

Compartments: cytosol

Inferred from: Actin/tubulin:prefoldin complex associates with CCT/TriC (Bos taurus)

Unfolded actins and tubulins compete efficiently for binding to TriC/CCT and their chaperonin binding sites appear to be at least in part overlapping (Melki et al., 1993).

Preceded by: unfolded actin/tubulin associates with prefoldin

Editions

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