

PXMP2 trimer transports glycolate from cytosol to peroxisomal matrix

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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

- Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)
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Reactome database release: 88

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

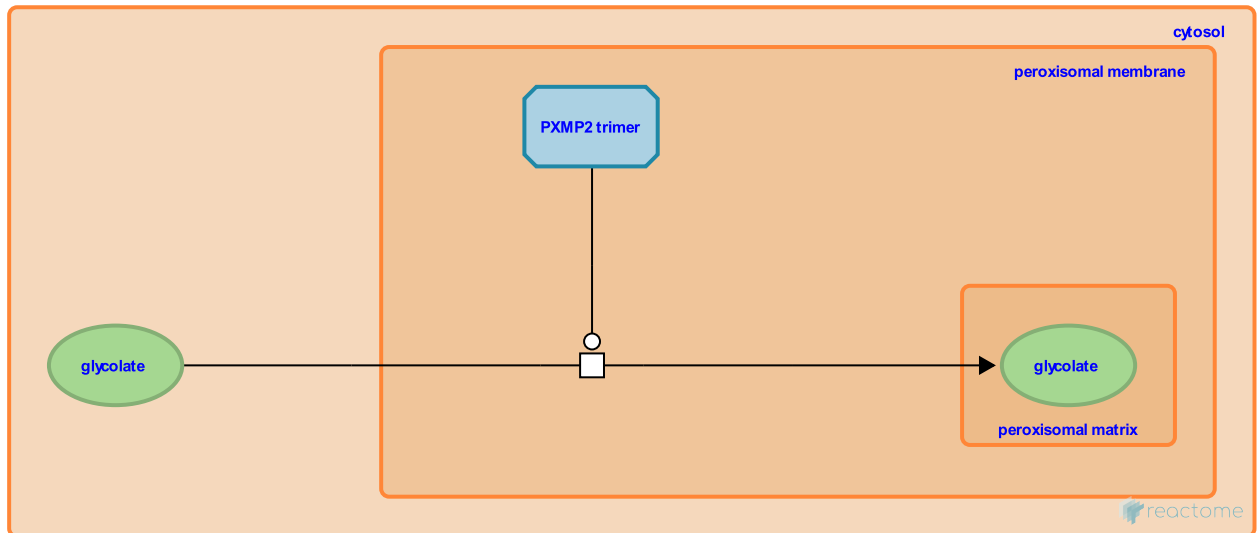
PXMP2 trimer transports glycolate from cytosol to peroxisomal matrix [↗](#)

Stable identifier: R-HSA-8953430

Type: transition

Compartments: peroxisomal membrane

Inferred from: [Pxmp2 trimer transports glycolate from cytosol to peroxisomal matrix \(Mus musculus\)](#)



Peroxisomal membrane protein 2 (PXMP2) homotrimer is inferred from the properties of its mouse homolog to form a channel in the peroxisomal membrane that allows the passage of glycolate and other molecules with molecular masses less than 200 Da between the cytosol and the peroxisomal matrix (Rokka et al. 2009; Wanders et al. 2016).

Literature references

Wanders, RJA., Ferdinandusse, S., Waterham, HR. (2015). Metabolic Interplay between Peroxisomes and Other Subcellular Organelles Including Mitochondria and the Endoplasmic Reticulum. *Front Cell Dev Biol*, 3, 83. [↗](#)

Immonen, HL., Soininen, R., Benz, R., Rokka, A., Bergmann, U., Weckström, M. et al. (2009). Pxmp2 is a channel-forming protein in Mammalian peroxisomal membrane. *PLoS ONE*, 4, e5090. [↗](#)

Editions

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|------------|------------------|-----------------|
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