

PLOD3:Fe²⁺ dimer:Glucosyl-galactosyl-hydroxylysyl collagen propeptides dissociates

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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. [↗](#)

Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)

Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)

Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

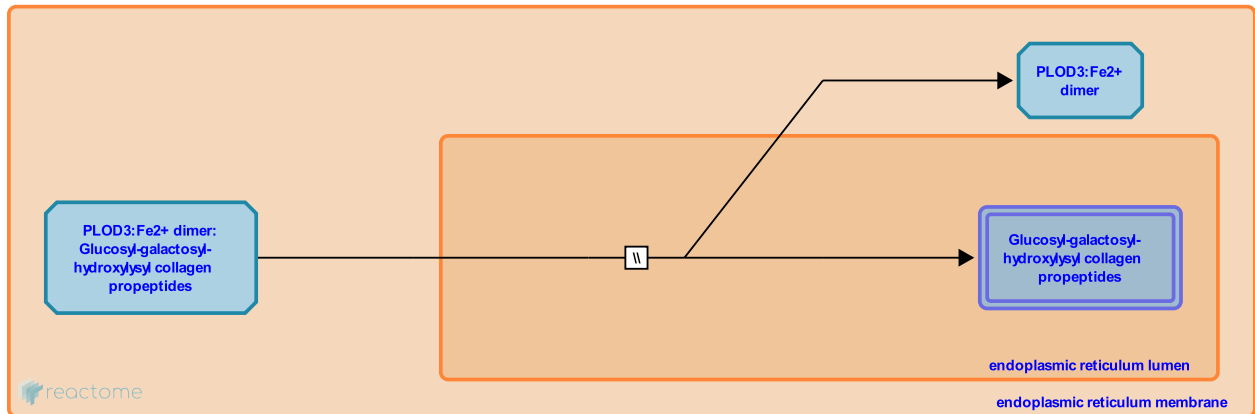
This document contains 1 reaction ([see Table of Contents](#))

PLOD3:Fe2+ dimer:Glucosyl-galactosyl-hydroxylysyl collagen propeptides dissociates [↗](#)

Stable identifier: R-HSA-8948224

Type: omitted

Compartments: endoplasmic reticulum lumen, endoplasmic reticulum membrane



Following the glucosylation of galactosyl-hydroxylysyl collagens by PLOD3, the collagens dissociate.

Literature references

Myllylä, R., Wang, C., Risteli, M., Rossi, M., Heikkinen, J., Valtavaara, M. et al. (2000). Lysyl hydroxylase 3 is a multi-functional protein possessing collagen glucosyltransferase activity. *J Biol Chem*, 275, 36158-63. [↗](#)

Editions

2012-05-24	Reviewed	Canty-Laird, EG.
2016-11-11	Authored, Edited	Jupe, S.