AFG3L2 (m-AAA protease) degrades SM-DT1 that is not assembled in MCU

Drago, I., May, B.
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: 83

This document contains 1 reaction (see Table of Contents)

https://reactome.org
AFG3L2 (m-AAA protease) degrades SMDT1 that is not assembled in MCU

Stable identifier: R-HSA-8949659

Type: omitted

Compartments: mitochondrial inner membrane

Free SMDT1 (EMRE) that is not complexed with MICU1 and MICU2 (or MICU3) is degraded by AFG3L2 (m-AAA protease) (Konig et al. 2016). This degradation appears to prevent the formation of MCU complexes that contain MCU and SMDT1 but lack MICU1 and MICU2 (or MICU3) and are therefore unregulated.

Literature references


Editions

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