

MT2A binds cadmium

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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

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Reactome database release: 70

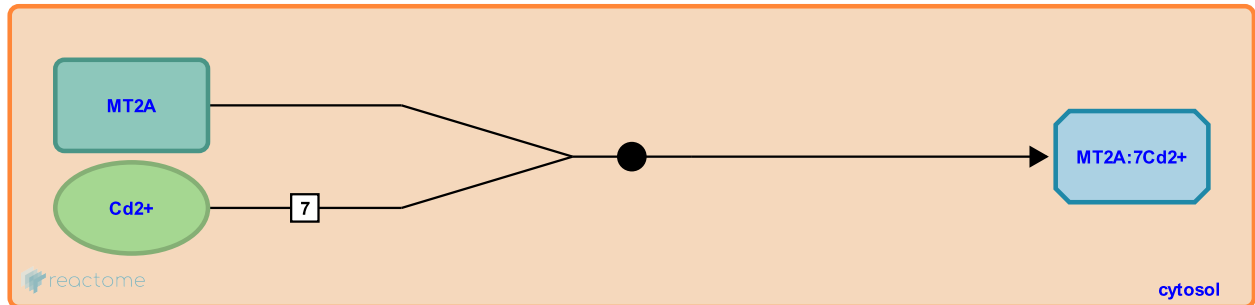
This document contains 1 reaction ([see Table of Contents](#))

MT2A binds cadmium [↗](#)

Stable identifier: R-HSA-5662608

Type: binding

Compartments: cytosol



The metallothionein MT2A binds 7 atoms of cadmium(II), a cluster of 4 atoms at the alpha domain at the C-terminus and a cluster of 3 atoms at the beta domain at the N-terminus (Pan et al. 1999).

Literature references

Pan, PK., Zheng, ZF., Lyu, PC., Huang, PC. (1999). Why reversing the sequence of the alpha domain of human metallothionein-2 does not change its metal-binding and folding characteristics. *Eur. J. Biochem.*, 266, 33-9. [↗](#)

Editions

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