

# ADP + ADP $\rightleftharpoons$ AMP + ATP [AK2]

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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: 69

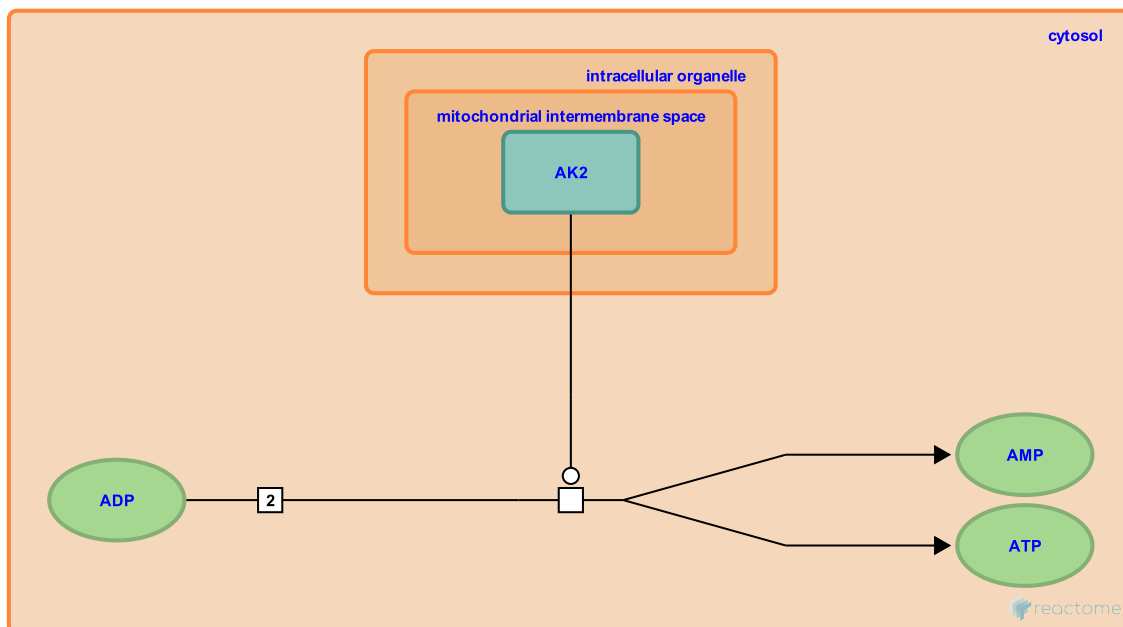
This document contains 1 reaction ([see Table of Contents](#))

## ADP + ADP <=> AMP + ATP [AK2] ↗

**Stable identifier:** R-HSA-110144

**Type:** transition

**Compartments:** cytosol, mitochondrial intermembrane space



Mitochondrial adenylate kinase 2 (AK2) catalyzes the reaction of two molecules of ADP to form AMP and ATP (Hamada et al. 1982). Localization of AK2 specifically to the mitochondrial intermembrane space is inferred from studies of the homologous rat enzyme (Criss 1970).

### Literature references

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### Editions

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