

# ACE:Zn<sup>2+</sup> hydrolyzes Angiotensin-(1-10) to Angiotensin-(1-8)

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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: 88

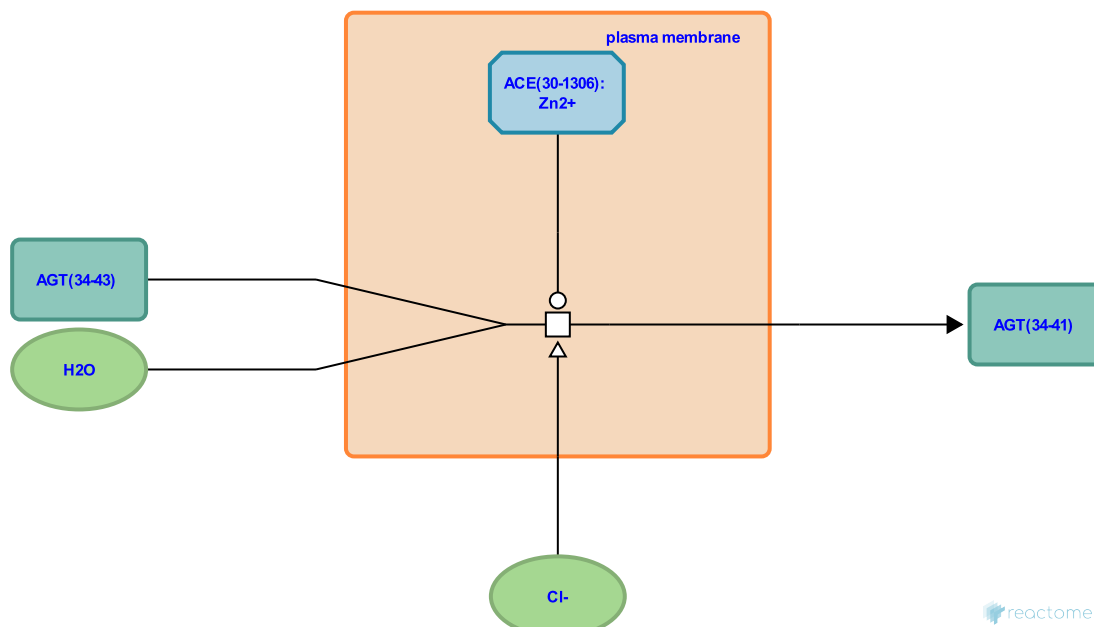
This document contains 1 reaction ([see Table of Contents](#))

## ACE:Zn<sup>2+</sup> hydrolyzes Angiotensin-(1-10) to Angiotensin-(1-8) ↗

**Stable identifier:** R-HSA-2022405

**Type:** transition

**Compartments:** extracellular region, plasma membrane



Angiotensin-converting enzyme (ACE) hydrolyzes angiotensin-(1-10) (angiotensin I) to yield angiotensin-(1-8) (angiotensin II) (Ehlers and Kirsch 1988). ACE is found at the plasma membrane of endothelial cells. This reaction is inhibited by drugs used to treat hypertension (angiotensin converting enzyme inhibitors, ACEI) including captopril (Gronhagen-Riska and Fyhrquist 1980, Stewart et al. 1981, Ehlers et al. 1986, Hayakari et al. 1989, Wei et al. 1991, Baudin and Beneteau-Burnat 1999), enalaprilat (metabolized from the prodrug enalapril, Wei et al. 1991, Baudin and Beneteau-Burnat 1999), lisinopril (Ehlers et al. 1991, Natesh et al. 2003), and ramiprilat (metabolized from the prodrug ramipril, Baudin and Beneteau-Burnat 1999).

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### Editions

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