

Arachidonic acid is epoxidated to 5,6-EET by CYP(4)

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07/12/2022

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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references

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Reactome database release: 82

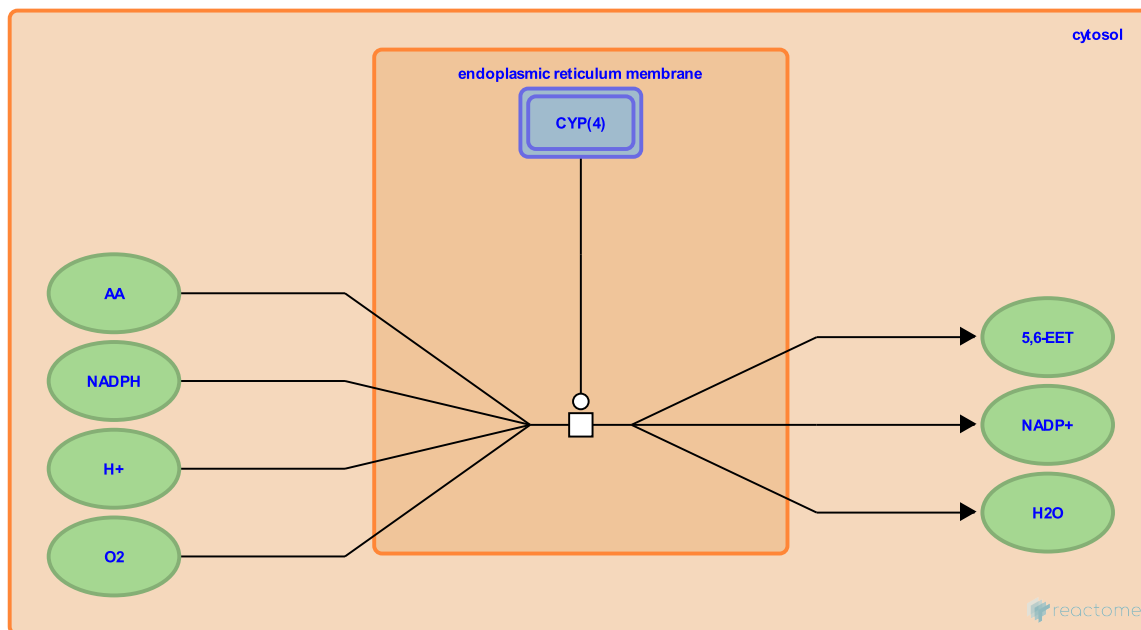
This document contains 1 reaction ([see Table of Contents](#))

Arachidonic acid is epoxidated to 5,6-EET by CYP(4) [↗](#)

Stable identifier: R-HSA-2161890

Type: transition

Compartments: endoplasmic reticulum membrane, cytosol



Several cytochrome P450s (CYPs) convert arachidonic acid to 5,6-epoxyeicosatrienoic acid (5,6-EET). The CYPs and their references are as follows: CYP1A1, CYP1A2, CYP1B1 (Choudhary et al. 2004); CYP2J2 (Wu et al. 1996).

Literature references

Falck, JR., Wu, S., Zeldin, DC., Moomaw, CR., Tomer, KB. (1996). Molecular cloning and expression of CYP2J2, a human cytochrome P450 arachidonic acid epoxygenase highly expressed in heart. *J Biol Chem*, 271, 3460-8. [↗](#)

Stoilov, I., Choudhary, D., Schenkman, JB., Sarfarazi, M., Jansson, I. (2004). Metabolism of retinoids and arachidonic acid by human and mouse cytochrome P450 1b1. *Drug Metab Dispos*, 32, 840-7. [↗](#)

Editions

2012-02-24	Authored, Edited	Williams, MG.
2012-11-10	Reviewed	Rush, MG.