

CYP7B1 7-hydroxylates 25OH-CHOL

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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

Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)

Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)

Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)

Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

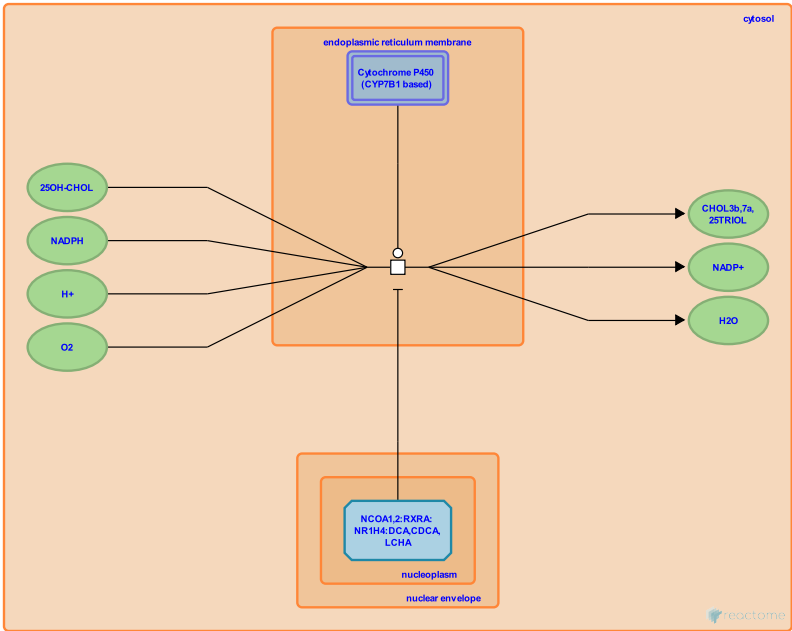
This document contains 1 reaction ([see Table of Contents](#))

CYP7B1 7-hydroxylates 25OH-CHOL ↗

Stable identifier: R-HSA-192065

Type: transition

Compartments: cytosol, endoplasmic reticulum membrane



25-hydroxycholesterol (25OH-CHOL) is 7 α -hydroxylated to cholest-5-ene-3 β ,7 α ,25-triol (CHOL3 β ,7 α ,25TRIOL) by CYP7B1 (cytochrome P450 7B1) (Wu et al. 1999).

Literature references

Javitt, NB., Martin, KO., Wu, Z., Chiang, JY. (1999). Structure and functions of human oxysterol 7 α -hydroxylase cDNAs and gene CYP7B1. *J Lipid Res*, 40, 2195-203. ↗

Editions

2007-04-30	Edited	D'Eustachio, P.
2008-05-19	Authored	Jassal, B.
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