

# 20cooh-LTB4 is converted to 18cooh-LTB4

Rush, MG., Williams, MG.

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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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. [↗](#)
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- 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: 70

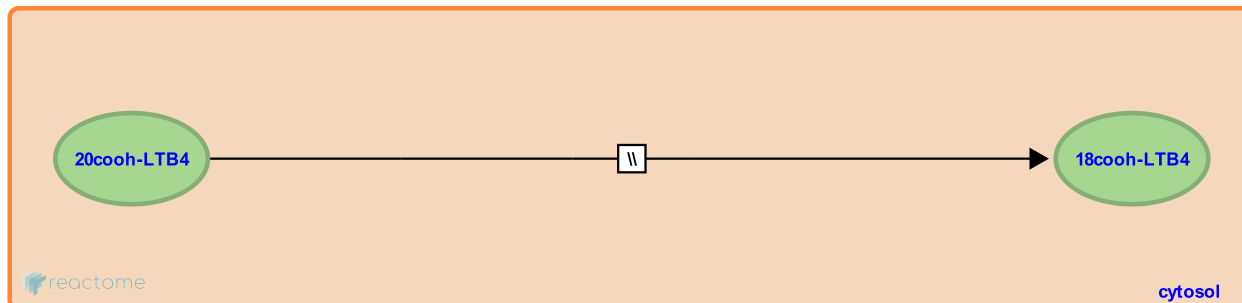
This document contains 1 reaction ([see Table of Contents](#))

## 20cooh-LTB4 is converted to 18cooh-LTB4 [↗](#)

**Stable identifier:** R-HSA-2161790

**Type:** omitted

**Compartments:** cytosol



Once omega-oxidation has occurred, 20-carboxy leukotriene B4 (20cooh-LTB4) can be further metabolized by beta-oxidation at its omega end into 18-carboxy-LTB4 (18cooh-LTB4) (Berry et al. 2003, Wheelan et al. 1999). The actual human enzyme or enzymes involved have yet to be identified.

### Literature references

Wheelan, P., Hankin, JA., Bilir, B., Guenette, D., Murphy, RC. (1999). Metabolic transformations of leukotriene B4 in primary cultures of human hepatocytes. *J Pharmacol Exp Ther*, 288, 326-34. [↗](#)

Berry, KA., Borgeat, P., Gosselin, J., Flamand, L., Murphy, RC. (2003). Urinary metabolites of leukotriene B4 in the human subject. *J Biol Chem*, 278, 24449-60. [↗](#)

### Editions

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