

histidine => urocanate + NH₄⁺

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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: 74

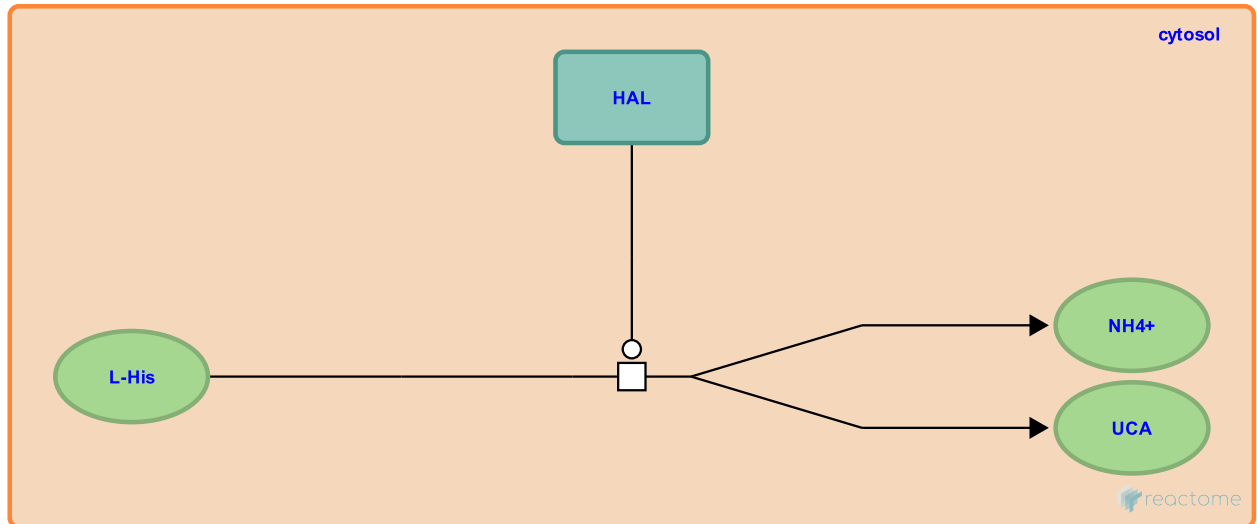
This document contains 1 reaction ([see Table of Contents](#))

histidine => urocanate + NH4+ ↗

Stable identifier: R-HSA-70899

Type: transition

Compartments: cytosol



Cytosolic histidine ammonia lyase (HAL) catalyzes the reaction of histidine to form urocanate and NH₄⁺ (Kawai et al. 2005).

Literature references

Kawai, Y., Moriyama, A., Asai, K., Coleman-Campbell, CM., Sumi, S., Morishita, H. et al. (2005). Molecular characterization of histidinemia: identification of four missense mutations in the histidase gene. *Hum Genet*, 116, 340-6. ↗

Editions

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