pyruvate + H+ [cytosol] => pyruvate + H+ [mitochondrial matrix]

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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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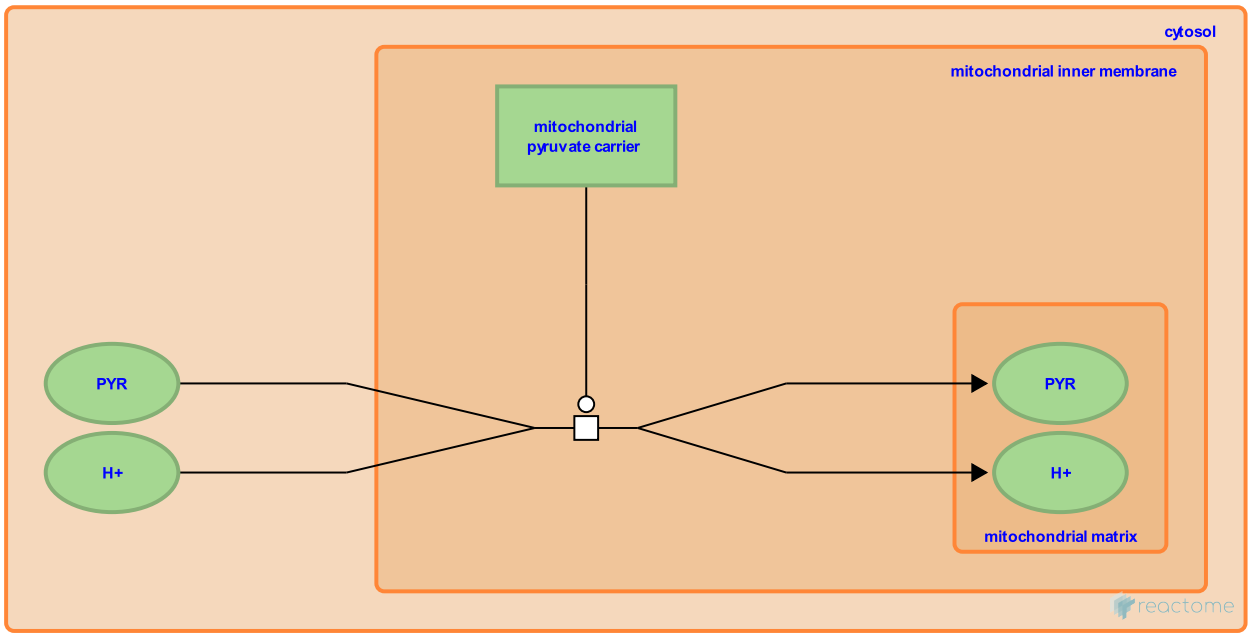
pyruvate + H+ [cytosol] => pyruvate + H+ [mitochondrial matrix] ↗

Stable identifier: R-GGA-372359

Type: transition

Compartments: cytosol, mitochondrial inner membrane, mitochondrial matrix

Inferred from: Cytosolic PYR is transported to the mitochondrial matrix (Rattus norvegicus)



The mitochondrial uptake of pyruvate is inferred from the process worked out in studies of isolated rat mitochondria (Papa et al. 1971).

Editions

2008-09-10	Authored, Edited	D'Eustachio, P.