lactate + H+ [cytosol] <=> lactate + H+ [extracellular]

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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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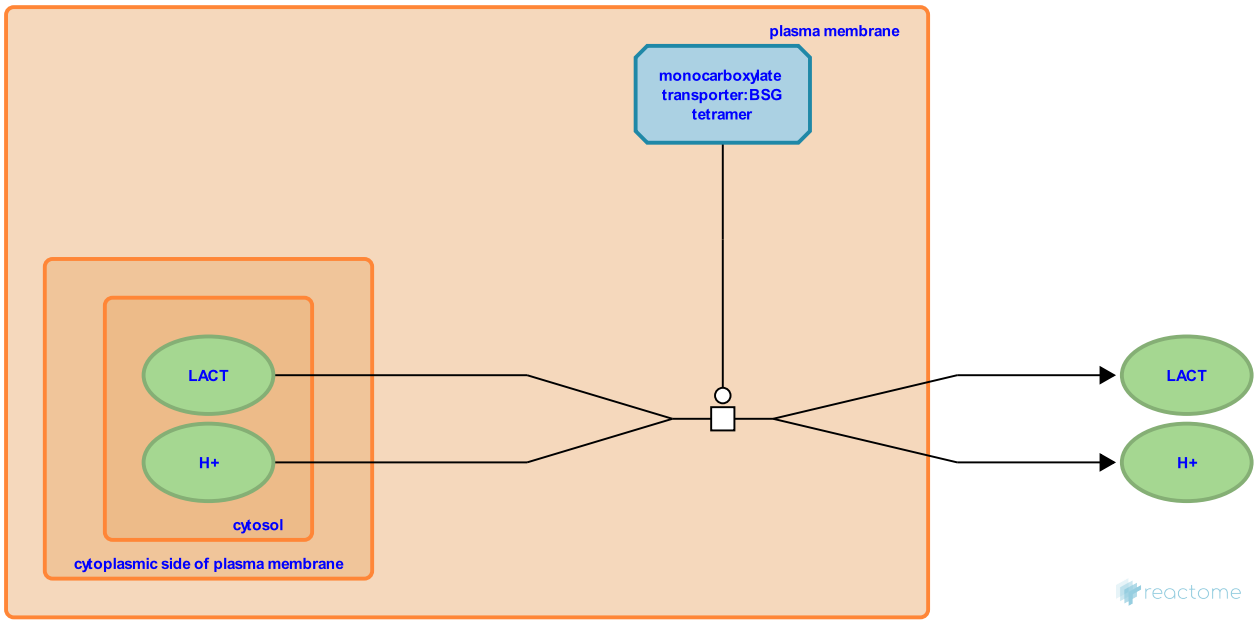
Stable identifier: R-GGA-373889

Type: transition

Compartments: cytosol, plasma membrane, extracellular region

Inferred from: BSG:MCTs cotransport LACT, H+ from cytosol to extracellular region (Homo sapiens)



The monocarboxylate transporter:basigin complex, associated with the plasma membrane, mediates the reversible export of cytosolic lactate and a hydrogen ion. No chicken transporter capable of mediating this reaction has been experimentally characterized, although open reading frames capable of encoding protein closely similar to components of the human MCT:basigin complex have been identified computationally in the ENSEMBL chicken gene set. This reaction is inferred from its human counterpart.

Editions

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