SRC autophosphorylation is positively regulated by InlA-bound CDH1

Orlic-Milacic, M., Schwerk, C.
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


Reactome database release: 78

This document contains 1 reaction (see Table of Contents)
SRC autophosphorylation is positively regulated by InlA-bound CDH1

Stable identifier: R-HSA-112333

Type: omitted

Compartments: plasma membrane, cytosol, cell wall

Diseases: listeriosis

SRC activation involves autophosphorylation at tyrosine residue Y419 (Brown and Cooper 1996). Binding of the Listeria monocytogenes cell wall protein InlA to E-cadherin (CDH1) triggers SRC autophosphorylation at Y419 through an unknown mechanism (Sousa et al. 2007). CDH1 engagement (adhesion) at cell-cell contacts is also known to induce SRC autophosphorylation (Fujita et al. 2002, McLachlan et al. 2007) and may involve integrins (Avizienyte et al. 2002, Martinez-Rico et al. 2010), but the process has not been fully elucidated.

Literature references


Editions

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