

PDGFRs bind type I TKI

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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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This document contains 1 reaction (see Table of Contents)

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Stable identifier: R-HSA-9674093

Type: binding

Compartments: plasma membrane, cytosol



Wild-type PDGFRA and PDGFRB can be bound and inhibited by class I tyrosine kinase inhibitors including pazopanib, avapritinib, and crenolanib (Gril et al, 2013; Wang et al, 2014; Mathias et al, 2015; Meliau et al, 2017; reviewed in Klug et al, 2018). Type I inhibitors bind in the ATP binding site of the active conformation and prevent full activation of the kinase (reviewed in Roskoski, 2018).

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Editions

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