Sunitinib-resistant KIT mutants do not bind sunitinib

García-Valverde, A., Pilco-Janeta, D., Rothfels, K., Serrano, 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: 83

This document contains 1 reaction (see Table of Contents)
Sunitinib-resistant KIT mutants do not bind sunitinib

Stable identifier: R-HSA-9669878

Type: transition

Compartments: plasma membrane

Diseases: cancer

Sunitinib is an approved therapeutic for the treatment of KIT mutant cancers. Sunitinib is effective against KIT primary mutations and against secondary mutations in the ATP-binding domain encoded by exon 13 and exon 14, but less effective against activation loop mutations encoded by exon 17 and 18, which show resistance to the drug (Nishida et al, 2009; Serrano et al, 2017; Serrano et al, 2019; Gajiwala et al, 2008; Garner et al, 2014; Roskoski, 2018)

Literature references


Editions

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