

IGF1,2 binds IGF1R

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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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Reactome database release: 88

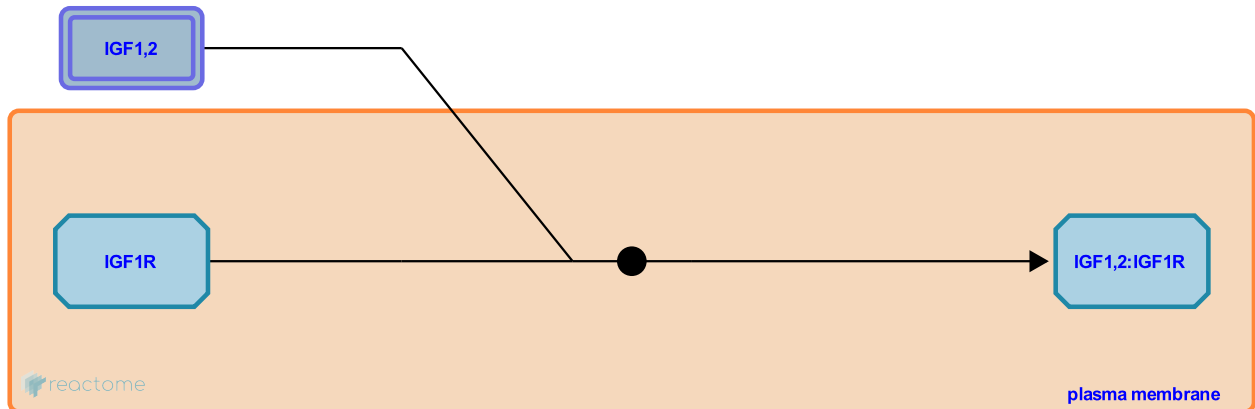
This document contains 1 reaction ([see Table of Contents](#))

IGF1,2 binds IGF1R [↗](#)

Stable identifier: R-HSA-2404200

Type: binding

Compartments: extracellular region, plasma membrane



Either IGF1 (IGF-I) or IGF2 (IGF-II) can bind the type 1 insulin-like growth factor receptor (IGF1R) (Casella et al. 1986, LeBon et al. 1986, Maly and Luthi 1986, Cacieri et al. 1988, Steele-Perkins et al. 1988, Burgisser et al. 1991, Germain-Lee et al. 1992, Keyhanfar et al. 2007, Alvino et al. 2009, Alvino et al. 2011). IGF1R has similar affinities for IGF1 and IGF2 (Casella et al. 1986, Steele-Perkins et al. 1988). The binding sites for IGF1 and IGF2 are in a similar location on the alpha peptide of IGF1R but there are some differences in which residues of IGF1R interact with IGF1 vs. IGF2 (Keyhanfar et al. 2007, Alvino et al. 2009, Alvino et al. 2011).

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Editions

2012-07-08	Authored, Edited	May, B.
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