

Spontaneous dimerization of ligand-responsive EGFR mutants

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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](#))

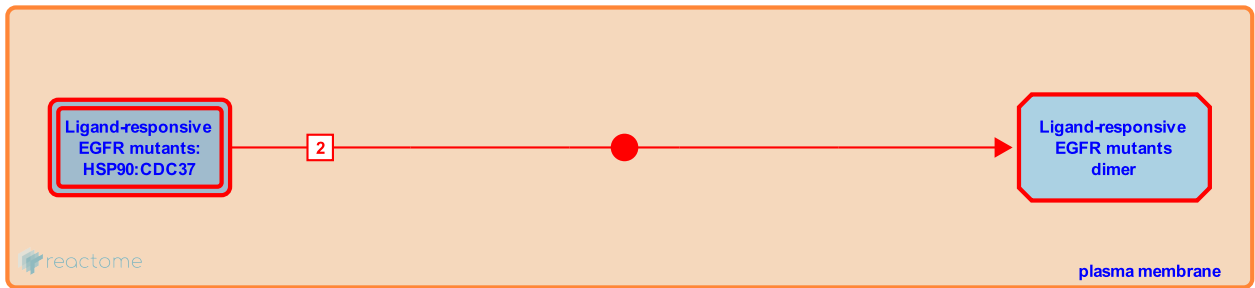
Spontaneous dimerization of ligand-responsive EGFR mutants [↗](#)

Stable identifier: R-HSA-1220614

Type: binding

Compartments: cytosol, plasma membrane

Diseases: cancer



EGFR ligand-responsive mutants dimerize spontaneously, without ligand binding, although ligand binding ability is preserved. This was experimentally demonstrated for EGFR L858R mutant and is presumed to happen in other constitutively active EGFR kinase domain mutants and EGFR extracellular domain point mutants.

Literature references

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Editions

2011-11-04	Authored	Orlic-Milacic, M.
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