Formation of di-heterotetramers of GluN1 (GRIN1) and GluN2C (GRIN2C)

Bhattacharya, S., Camp, C., Orlic-Milacic, M., Traynelis, S.F.
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)
Formation of di-heterotetramers of GluN1 (GRIN1) and GluN2C (GRIN2C)

Stable identifier: R-HSA-9609739

Type: binding

Compartments: endoplasmic reticulum membrane

Inferred from: Formation of di-heterotetramers of GluN1 (Grin1) and GluN2C (Grin2c) (Rattus norvegicus)

GluN1 (GRIN1) forms a di-heterotetrameric complex with GluN2C (GRIN2C) in heterologous expression systems. The tetramer includes two molecules of GluN1 and two molecules of GluN2C (Monyer et al. 1994). The stoichiometry in neurons remains to be determined. GluN2C expression starts late during embryonic development and is most prominent in cerebellum, olfactory bulb, and glial cells (Karavanova et al. 2007, Ravikrishnan et al. 2018, reviewed by Traynelis et al. 2010, Paoletti et al. 2013).

Editions

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