GPR4, GPR65, GPR132 and OGR1 are pH sensing receptors

D'Eustachio, P., Jupe, S.
Introduction

Reactome is an 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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references


Reactome database release: 70

This document contains 1 reaction (see Table of Contents)

https://reactome.org
GPR4, GPR65, GPR132 and OGR1 are pH sensing receptors

Stable identifier: R-HSA-444731

Type: binding

Compartments: extracellular region, plasma membrane

The subfamily of G protein-coupled receptors comprising GPR4, OGR1, TDAG8, and G2A was originally characterized as a group of proteins mediating biological responses to the lipid messengers sphingosylphosphorylcholine (SPC), lysophosphatidylcholine (LPC), and psychosine. This was later replaced by reports that OGR1 and GPR4 sense acidic pH. GPR4, OGR1, and TDAG8 are now considered as proton-sensing receptors.

Literature references


Editions

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Author/Reviewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009-10-23</td>
<td>Authored</td>
<td>Jupe, S.</td>
</tr>
<tr>
<td>2009-12-11</td>
<td>Reviewed</td>
<td>D'Eustachio, P.</td>
</tr>
<tr>
<td>2010-03-01</td>
<td>Edited</td>
<td>Jupe, S.</td>
</tr>
</tbody>
</table>

https://reactome.org