

## Adhesion Class GPCRs in GtoPdb v.2025.3

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### Abstract

Adhesion GPCRs are structurally identified on the basis of a large extracellular region, similar to the Class B GPCR, but which is linked to the 7TM region by a GPCR autoproteolysis-inducing (GAIN) domain [15] containing a GPCR proteolysis site (GPS). The N-terminal extracellular region often shares structural homology with adhesive domains (e.g. cadherins, immunoglobulin, lectins) facilitating inter- and matricellular interactions and leading to the term adhesion GPCR [120, 468]. Several receptors have been suggested to function as mechanosensors [355, 322, 442, 49, 327]. Cryo-EM structures of the 7-transmembrane domain of several adhesion GPCRs have been determined recently [326, 31, 450, 241, 334, 336, 490, 327]. **The nomenclature of these receptors was revised in 2015 as recommended by NC-IUPHAR and the Adhesion GPCR Consortium [145].**

### Contents

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## Database links

### Adhesion Class GPCRs

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=17>

### Introduction to Adhesion Class GPCRs

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#### Receptors

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ADGRV1

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Correction: G Protein-Coupling of Adhesion GPCRs ADGRE2/EMR2 and ADGRE5/CD97, and Activation of G Protein Signalling by an Anti-EMR2 Antibody. *Sci Rep* **10**: 5097 [PMID:32184438]

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