

GPR18, GPR55 and GPR119 in GtoPdb v.2025.3

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Abstract

GPR18, GPR55 and GPR119 (**provisional nomenclature**), although showing little structural similarity to CB₁ and CB₂ cannabinoid receptors, respond to endogenous agents analogous to the endogenous cannabinoid ligands, as well as some natural/synthetic cannabinoid receptor ligands [105]. Although there are multiple reports to indicate that GPR18, GPR55 and GPR119 can be activated *in vitro* by [N-arachidonoylglycine](#), [lysophosphatidylinositol](#) and [N-oleylethanolamide](#), respectively, there is a lack of evidence for activation by these lipid messengers *in vivo*. As such, therefore, these receptors retain their orphan status.

Contents

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Please note that the database version for the citations given in GtoPdb are to the most recent preceding version in which the family or its subfamilies and targets were substantially changed. The links below are to the current version. If you need to consult the cited version, rather than the most recent version, please contact the GtoPdb curators.

Database links

[GPR18, GPR55 and GPR119](#)

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=114>

Receptors

[GPR18](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=89>

[GPR55](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=109>

[GPR119](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=126>

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