

Inwardly rectifying potassium channels (K_{IR}) in GtoPdb v.2025.3

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Abstract

The 2TM domain family of K channels are also known as the inward-rectifier K channel family. This family includes the strong inward-rectifier K channels (K_{ir}2.x) that are constitutively active, the G-protein-activated inward-rectifier K channels (K_{ir}3.x) and the ATP-sensitive K channels (K_{ir}6.x, which combine with sulphonylurea receptors (SUR1-3)). The pore-forming α subunits form tetramers, and heteromeric channels may be formed within subfamilies (*e.g.* K_{ir}3.2 with K_{ir}3.3).

Contents

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Database links

[Inwardly rectifying potassium channels \(K_{IR}\)](#)

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=74>

[Introduction to Inwardly rectifying potassium channels \(K_{IR}\)](#)

<https://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=74>

Channels and Subunits

K_{ir}1.1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=429>

K_{ir}2.1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=430>

K_{ir}2.2

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K_{ir}2.3

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K_{ir}2.4

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K_{ir}3.1

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K_{ir}5.1

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K_{ir}6.1

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K_{ir}6.2

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K_{ir}7.1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=443>

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