

Calcium- and sodium-activated potassium channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

Calcium- and sodium- activated potassium channels are members of the 6TM family of K channels which comprises the voltage-gated K_V subfamilies, including the KCNQ subfamily, the EAG subfamily (which includes hERG channels), the Ca^{2+} -activated Slo subfamily (actually with 6 or 7TM) and the Ca^{2+} - and Na^+ -activated SK subfamily (**nomenclature as agreed by the NC-IUPHAR Subcommittee on Calcium- and sodium-activated potassium channels [124]**). As for the 2TM family, the pore-forming subunits form tetramers and heteromeric channels may be formed within subfamilies (e.g. $K_V1.1$ with $K_V1.2$; KCNQ2 with KCNQ3).

Contents

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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

[Calcium- and sodium-activated potassium channels](#)

<http://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=69>

Introduction to Calcium- and sodium-activated potassium channels

<http://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=69>

Channels and Subunits

K_{Ca}1.1

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=380>

K_{Ca}2.1

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=381>

K_{Ca}2.2

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=382>

K_{Ca}2.3

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=383>

K_{Ca}3.1

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=384>

K_{Na}1.1

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=385>

K_{Na}1.2

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=386>

K_{Ca}5.1

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=387>

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