3.6.5.2 Small monomeric GTPases in GtoPdb v.2023.1

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Abstract

Small G-proteins, are a family of hydrolase enzymes that can bind and hydrolyze guanosine triphosphate (GTP). They are a type of G-protein found in the cytosol that are homologous to the alpha subunit of heterotrimeric G-proteins, but unlike the alpha subunit of G proteins, a small GTPase can function independently as a hydrolase enzyme to bind to and hydrolyze a guanosine triphosphate (GTP) to form guanosine diphosphate (GDP). The best-known members are the Ras GTPases and hence they are sometimes called Ras subfamily GTPases.

Contents

This is a citation summary for 3.6.5.2 Small monomeric GTPases in the Guide to Pharmacology database (GtoPdb). It exists purely as an adjunct to the database to facilitate the recognition of citations to and from the database by citation analyzers. Readers will almost certainly want to visit the relevant sections of the database which are given here under database links.

GtoPdb is an expert-driven guide to pharmacological targets and the substances that act on them. GtoPdb is a reference work which is most usefully represented as an on-line database. As in any publication this work should be appropriately cited, and the papers it cites should also be recognized. This document provides a citation for the relevant parts of the database, and also provides a reference list for the research cited by those parts. For further details see [9].

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

3.6.5.2 Small monomeric GTPases
https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=896

RAS subfamily
https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=897

Introduction to RAS subfamily
https://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=897

Enzymes
HRAS
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2822
NRAS
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2823
KRAS
References


