

NADPH oxidases in GtoPdb v.2021.3

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Abstract

The two DUOX enzymes were originally identified as participating in the production of hydrogen peroxide as a pre-requisite for thyroid hormone biosynthesis in the thyroid gland [9]. NOX enzymes function to catalyse the reduction of molecular oxygen to superoxide and various other reactive oxygen species (ROS). They are subunits of the NADPH oxidase complex.

Contents

This is a citation summary for NADPH oxidases 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.

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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

NADPH oxidases

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=993>

Introduction to NADPH oxidases

<https://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=993>

Enzymes

DUOX1(dual oxidase 1)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3000>

DUOX2(dual oxidase 2)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2999>

NOX1(NADPH oxidase 1)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3001>

NOX2(cytochrome b-245 beta chain)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3002>

NOX3(NADPH oxidase 3)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3003>

NOX4(NADPH oxidase 4)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3004>

NOX5(NADPH oxidase 5)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3005>

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