

SLCO family of organic anion transporting polypeptides in GtoPdb v.2025.3

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Abstract

The SLCO superfamily is comprised of the organic anion transporting polypeptides (OATPs). The 11 human OATPs are divided into 6 families and ten subfamilies based on amino acid identity. These proteins are located on the plasma membrane of cells throughout the body. They have 12 TM domains and intracellular termini, with multiple putative glycosylation sites. OATPs mediate the sodium-independent uptake of a wide range of amphiphilic substrates, including many drugs and toxins. Due to the multispecificity of these proteins, this guide lists classes of substrates and inhibitors for each family member. More comprehensive lists of substrates, inhibitors, and their relative affinities may be found in the review articles listed below.

Contents

This is a citation summary for SLCO family of organic anion transporting polypeptides 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 [3].

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

SLCO family of organic anion transporting polypeptides

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=238>

Transporters

OATP1A2

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1219>

OATP1B1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1220>

OATP1B3

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1221>

OATP1C1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1222>

OATP2A1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1223>

OATP2B1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1224>

OATP3A1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1225>

OATP4A1

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1226>
OATP4C1
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1227>
OATP5A1
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1228>
OATP6A1
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1229>

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