SLC3 and SLC7 families of heteromeric amino acid transporters (HATs) (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

The SLC3 and SLC7 families combine to generate functional transporters, where the subunit composition is a disulphide-linked combination of a heavy chain (SLC3 family) with a light chain (SLC7 family).

Contents

This is a citation summary for SLC3 and SLC7 families of heteromeric amino acid transporters (HATs) 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.

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

SLC3 and SLC7 families of heteromeric amino acid transporters (HATs)
http://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=141
SLC3 family
http://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=168
Transporters
rBAT
http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=889
4F2hc
http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=890
SLC7 family
Transporters

- **CAT1** (High affinity cationic amino acid transporter 1)
- **CAT2** (Low affinity cationic amino acid transporter 2)
- **CAT3** (Cationic amino acid transporter 3)
- **CAT4** (Cationic amino acid transporter 4)
- Probable cationic amino acid transporter
- **LAT1** (L-type amino acid transporter 1)
- **LAT2** (L-type amino acid transporter 2)
- **y+LAT1** (y+L amino acid transporter 1)
- **y+LAT2** (y+L amino acid transporter 2)
- **b₀⁺⁺AT** (b₀⁺⁺-type amino acid transporter 1)
- **Asc-1** (Asc-type amino acid transporter 1)
- **xCT** (Cystine/glutamate transporter)
- **AGT1**

References


