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## **Structural properties for selective and efficient L-type amino acid transporter 1 (LAT1) mediated cellular uptake**

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### **Abbreviations**

ARPE-19, a human retinal pigment epithelial cell line; ATCC, American Type Culture Collection; ASCT2, alanine-serine-cysteine transporter 2; BBB, Blood Brain Barrier; BCH, 2-aminobicyclo-(2,2,1)-heptane-2-carboxylic acid; CNS, Central Nervous System; CYP3A4, cytochrome P450 3A4; DMEM, Dulbecco's Modified Eagle Medium; FBS, Fetal Bovine Serum; HBSS, Hank's balanced salt solution; HEK cells, human embryonic kidney cells; HeLa S3 cells, human derived cervix adenocarcinoma cells; LAT1, L-Type Amino Acid Transporter 1; LAT2, L-type Amino Acid Transporter 2; LC-MS/MS, liquid chromatography tandem mass spectrometry; MCF-7, human breast adenocarcinoma cell line; MDCK cells, Madin-Darby canine kidney cells; MDR1, multidrug resistance protein 1; mTOR, mechanistic/mammalian target of rapamycin; OCT2, organic cation transporter 2; PMAT, Plasma Membrane Monoamine Transporter; 3D-QSAR, 3-Dimensional Quantitative Structure Activity relationship model

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