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Targeted Efflux Transporter Inhibitors – A Solution to Improve Poor Cellular Accumulation of Anti-Cancer Agents

Johanna Huttunen, Mikko Gynther, Kristiina M. Huttunen

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*Targeted Efflux **Transporter** Inhibitors – A Solution to **Improve** Poor Cellular Accumulation of Anti-Cancer Agents*

Johanna Huttunen,^a Mikko Gynther,^a Kristiina M. Huttunen,^{a,}*

^aSchool of Pharmacy, Faculty of Health Sciences, University of Eastern Finland,

P.O. Box 1627, FI-70211 Kuopio, Finland

* Corresponding author, E-mail: kristiina.huttunen@uef.fi

Keywords

Inhibitor of Efflux Transporter, Drug targeting, L-type Amino Acid Transporter 1 (LAT1),

Multidrug resistance, Prodrug, Transporter-mediated drug delivery

Abbreviations

ABC, ATP-Binding cassette; ARPE-19, human retinal pigment epithelial cells; BBB, blood-brain barrier; BCRP, breast cancer resistant protein; CNS, central nervous system; 3D-QSAR, 3-Dimensional Quantitative Structure Activity; ELC, elacridar; LAT1, L-Type amino acid transporter 1; MCF-7, human breast adenocarcinoma cells; MDR, multidrug resistance; MRP, multiresistant protein; MTX methotrexate; NRG, naringin; OAT, organic anion transporter; OATP, organic anion transporting polypeptide; PAH, p-aminohippuric acid; P-gp, P-glycoprotein; PRB, probenecid; RFP, rifampicin; VBL, vinblastine

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