## Accepted Manuscript

Characterization of the IPEC-J2 MDR1 (iP-gp) cell line as a tool for identification of P-gp substrates

Burak Ozgür, Lasse Saaby, Kristine Langthaler, Birger Brodin

PII: S0928-0987(17)30625-5

DOI: doi:10.1016/j.ejps.2017.11.007

Reference: PHASCI 4296

To appear in: European Journal of Pharmaceutical Sciences

Received date: 11 September 2017
Revised date: 1 November 2017
Accepted date: 8 November 2017

Please cite this article as: Burak Ozgür, Lasse Saaby, Kristine Langthaler, Birger Brodin, Characterization of the IPEC-J2 MDR1 (iP-gp) cell line as a tool for identification of P-gp substrates. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Phasci(2017), doi:10.1016/j.ejps.2017.11.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



# **ACCEPTED MANUSCRIPT**

### Data article

**Title:** Data demonstrating the challenges of determining the kinetic parameters of P-gp mediated transport of low-water soluble substrates

#### **Authors:**

Burak Ozgür<sup>1</sup>, Lasse Saaby<sup>1,2</sup>, Kristine Langthaler<sup>3</sup> & Birger Brodin<sup>1</sup>

#### **Affiliations:**

- 1. Section of Pharmaceutical Design and Drug Delivery, Department of Pharmacy, University of Copenhagen, Universitetsparken 2, DK-2100, Copenhagen, Denmark
- 2. Bioneer-FARMA, Department of Pharmacy, University of Copenhagen, Universitetsparken 2, DK-2100, Copenhagen, Denmark
- 3. Lundbeck Pharma A/S, Ottiliavej 9, 2500 Valby, Denmark

#### **Contact email:**

\*Corresponding author:

Birger Brodin, Email; birger.brodin@sund.ku.dk

Voice: +453533616

#### **Abstract**

The presented data are related to the research article entitled "Characterization of the IPEC-J2 MDR1 (iP-gp) cell line as a tool for identification of P-gp substrates" (Ozgur et al., 2017). This data report describes the challenges of investigating the concentration-dependent transport for P-glycoprotein (P-gp) substrates with relatively low aqueous solubility. Thus, we provide solubility data on two prototypical P-gp substrates, digoxin and rhodamine 123, and present a simulated Michaelis-Menten curve of the P-gp mediated transport of digoxin. Furthermore, we present data from bidirectional transport of digoxin and rhodamine 123 across cell monolayers of the MDCK II MDR1 and iP-pg cell lines in the presence of the selective P-gp inhibitor, zosuquidar (LY335979).

## Download English Version:

# https://daneshyari.com/en/article/8511891

Download Persian Version:

https://daneshyari.com/article/8511891

<u>Daneshyari.com</u>