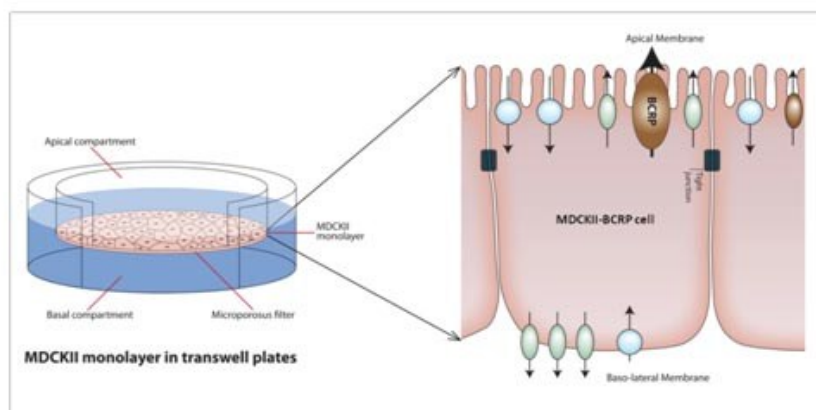


PREADYPORT™-BCRP

A Novel, Ready-to-Use Cell-Based Assay for In Vitro Transporter Evaluation

FEATURES AND BENEFITS

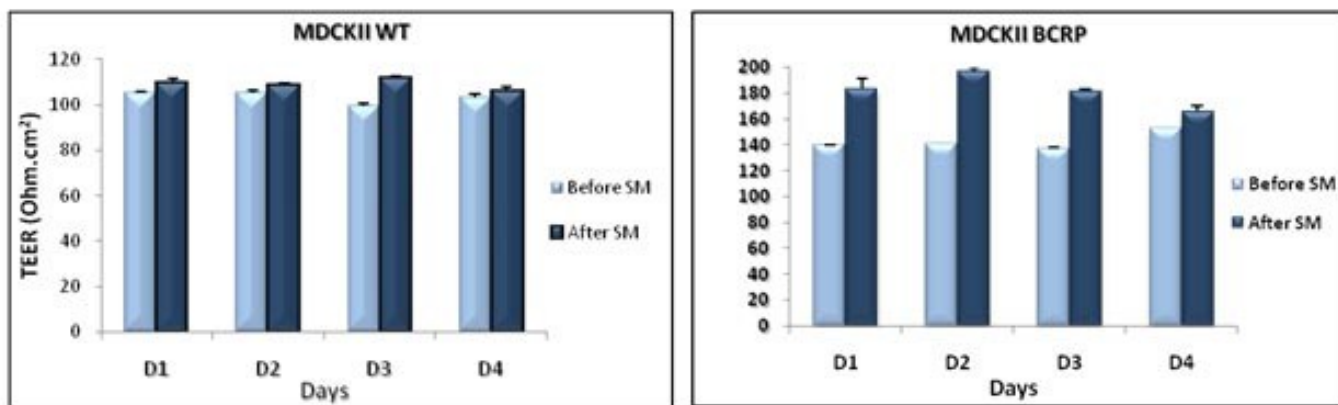
- MDCKII cells expressing different drug transporters for Study substrate and inhibitor interactions of drugs with BCRP transporter .
- Differentiated MDCKII cells expressing BCRP, as well as the parental cell line (11 day system) plated on HTS Transwell -24 well permeable supports.
- Integrated Transwells enable easy handling and provide a user-friendly system
- Proprietary conditioning medium allows for up to 7 days of transportation/storage at room temperature.
- Adaptable to automation.
- Cost effective for any size laboratory.



TECHNICAL DESCRIPTION

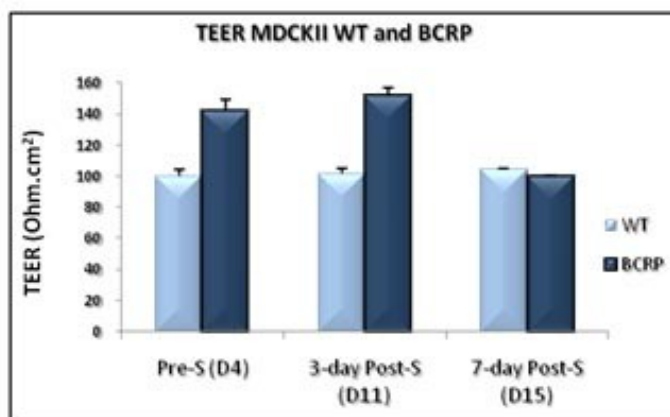
PreadyPort™-BCRP Kit contains 24 well insert-integrated plates with differentiated MDCKII cells expressing BCRP, as well as the parental cell line. PreadyPort Kits are revolutionary in providing a ready-to-use tool for MDCKII-BCRP monolayer assays. The kit will allow researchers to perform BCRP interaction studies on monolayers without the need for licensing and cell culturing. The proprietary shipping medium allows storage and transportation at room temperature, without altering cell functional properties.

Stability of PreadyPort™-MDR1 barrier properties during shipping conditions



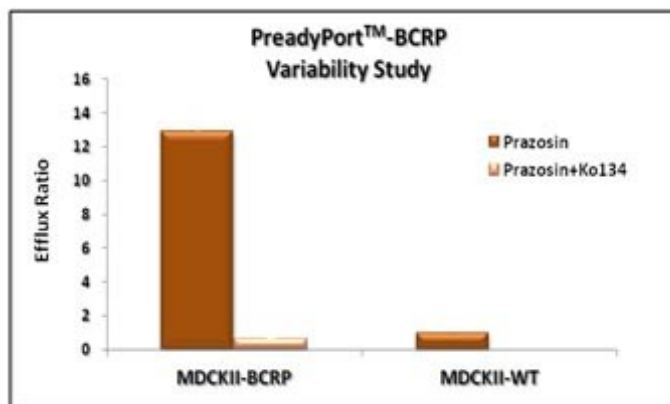
The barrier stability of the **PreadyPort™-BCRP** kit during shipping and storage is presented above. The 11-day MDCKII-WT and BCRP monolayers were maintained in shipping medium for 1, 2, 3 and 4 days, then their barrier status was evaluated by TEER (trans-epithelial electrical resistance) measurement before applying and 24 hours after removing the shipping medium. Cell monolayers showed no changes in barrier properties up to 4 days in the presence of shipping medium indicating that **PreadyPort™-BCRP** can be stored and transported at room temperature up to 4 days without loss of its barrier functions.

High Flexibility of PreadyPort™-BCRP



The MDCKII-WT and BCRP monolayers were maintained in shipping medium for 4 days at room temperature. After removal and exchange with fresh medium, TEER was measured after 3 (D11) and 7 (D15) days of standard culture conditions. Results represent the average of three independent experiments.

Functional Stability of PreadyPort™-BCRP in 24-insert well plate format



BCRP-mediated prazosin transport was determined from three independent experiments at day 12 of culture in 24-insert integrated plate format. Transport of prazosin was specifically inhibited by Ko134 BCRP inhibitor. No transport was seen in MDCKII-wt cells.

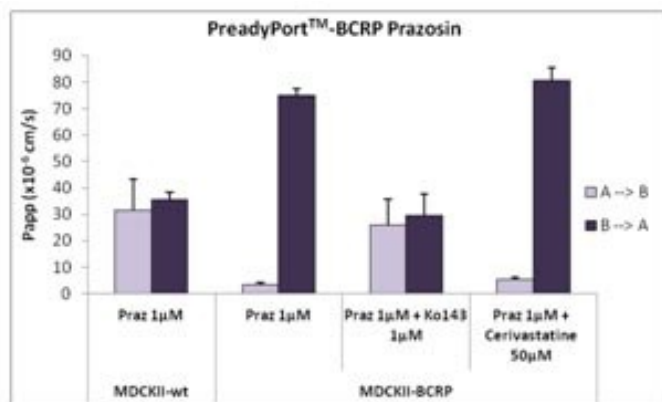
PRODUCT INFORMATION

Product Number	Product Name	Format
001-1013	PreadyPort™-BCRP: MDCKII-BCRP Cells	24-well plate
001-1007	PreadyPort™-CTRL: MDCKII parental Cells (CTRL)	24-well plate
001-1015	PreadyPort™-BCRP/CTRL: 50% BCRP - 50% CTRL cells	24-well plate

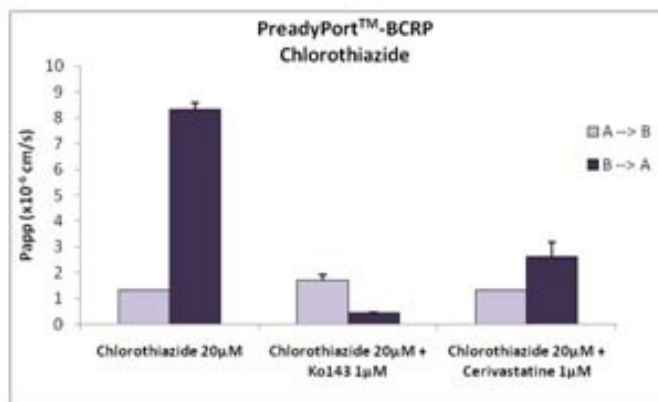
*PreadyPort™ products are co-developed by Solvo Biotechnology and ReadyCell.

*PreadyPort™ is registered Trade Mark of Solvo Biotechnology and ReadyCell/Advancell.

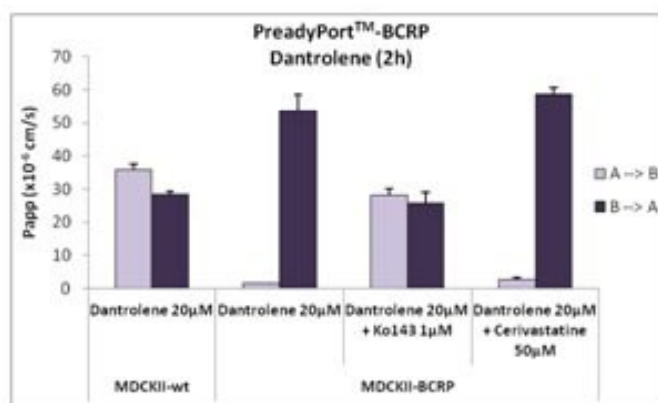
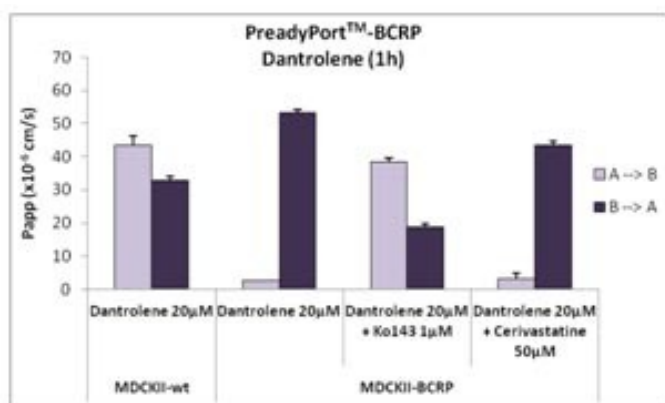
Papp values obtained with PreadyPort™-BCRP after the incubation with different BCRP substrates and the specific BCRP inhibitor Ko143



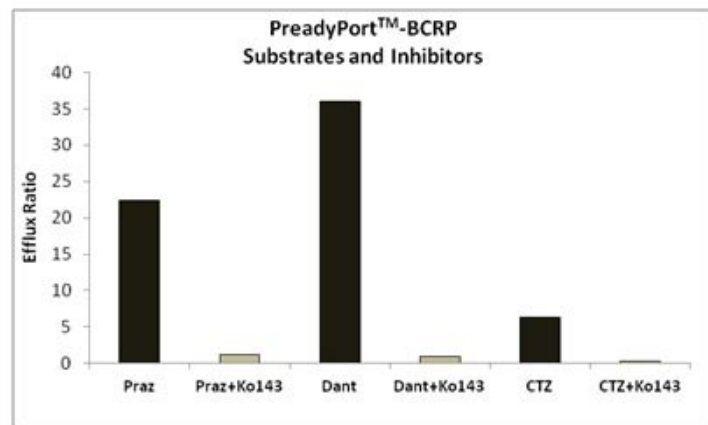
Papp values obtained after incubation of Prazosin alone or in the presence of a BCRP specific inhibitor Ko143. Papp values for prazosin were not altered by the presence of 50 μM of Cerivastatine.



Papp values obtained after incubation of Chlorothiazide alone or in the presence of a BCRP specific inhibitor Ko143 or Cerivastatine .



Results of the transport of Dantrolene alone or in the presence of Ko143 after 1 and 2h of incubation on MDCKII-wt and MDCKII-BCRP monolayers.



Efflux ratio values of different BCRP substrates obtained with PreadyPort™-BCRP in 24 insert-integrated well plates. In the presence of the specific BCRP inhibitor Ko143 the efflux ratio decreased to values around 1.