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MDCK-MDR1细胞模型及其在药物透过研究中的应用进展

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摘要:

本文介绍了MDCK-MDR1细胞系的特点、模型的建立,药物在其细胞模型上吸收转运的研究进展。概述了国内外关 于利用MDCK-MDR1细胞系作为模型进行药物筛选、药物相互作用和研究药物吸收转运机制等方面的内容。 MDCK-MDR1细胞系高表达P-糖蛋白(P-glycoprotein, P-gp),且P-gp呈极性分布,因而它可以作为药物转运模型 快速筛选P-gp底物和抑制剂,以及肠道、血脑屏障、肾脏的体外模型。

关键词: MDCK-MDR1细胞 P-糖蛋白 药物转运 细胞模型

Advances in the MDCK-MDR1 cell model and its applications to screen drug permeability

LIU Yao: ZENG Su

Abstract:

This article introduces the characteristics and establishment of MDCK-MDR1 cell line, and its applications as an in vitro model for the assessment of the membrane permeability properties of drugs. MDCK-MDR1 cell model is widely used in drug screenings, and the study of mechanisms of drug interaction and absorption or transport. The review summarizes the progress and applications of MDCK-MDR1 cell model. Because there is high polarized P-glycoprotein (P-gp) expression in MDCK-MDR1 cells, it could be p曾苏 used as a drug transport model to screen P-gp substrates or inhibitors, as well as models of intestinal mucosa, blood brain barrier and kidney. Although there are some disadvantages in MDCK-MDR1 cell model, it is an effective tool for implementing permeability of drug in an optimal fashion.

Keywords: P-glycoprotein drug transport cell model MDCK-MDR1 cell

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