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SYNERGISTIC EFFECT OF HUMAN CYTOCHROME B5 COEXPRESSION ON THE METABOLIC ACTIVITY OF CYP1A2 IN CHINESE HAMSTER OVARY CELLS

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Human cytochrome B5 (CYB5) was coexpressed with cytochrome P450 1A2 (CYP1A2), NADPH-CYP450 reductase (CYPR) and *N*-acetyltransferase 2 (NAT2) in Chinese hamster ovary (CHO) cells. The expression of four proteins was determined by Western blot analyses. The introduction of cDNAs to CHO cells were transduced via retroviral vectors. The cytotoxicity assay of 2-aminoanthracene (2-AA) and aflatoxin B_1 were approximately 4-fold more sensitive than CYB5 free cells. But there were no difference treated with 2-amono-3,4-dimethylimidazo[4,5-*f*]quinoxaline (MeIQx) between CYB5 transduced and CYB5 free cells.