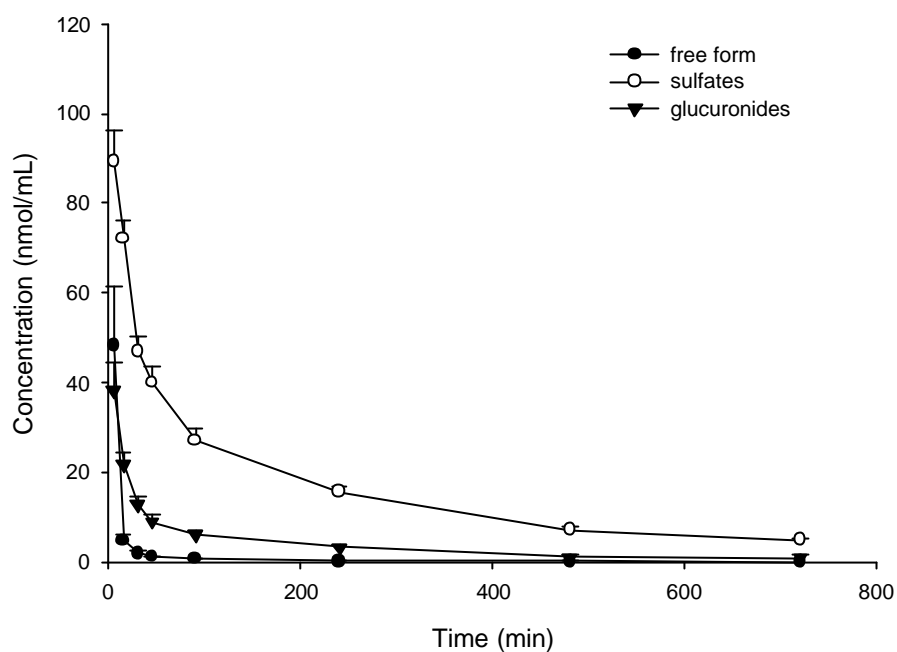
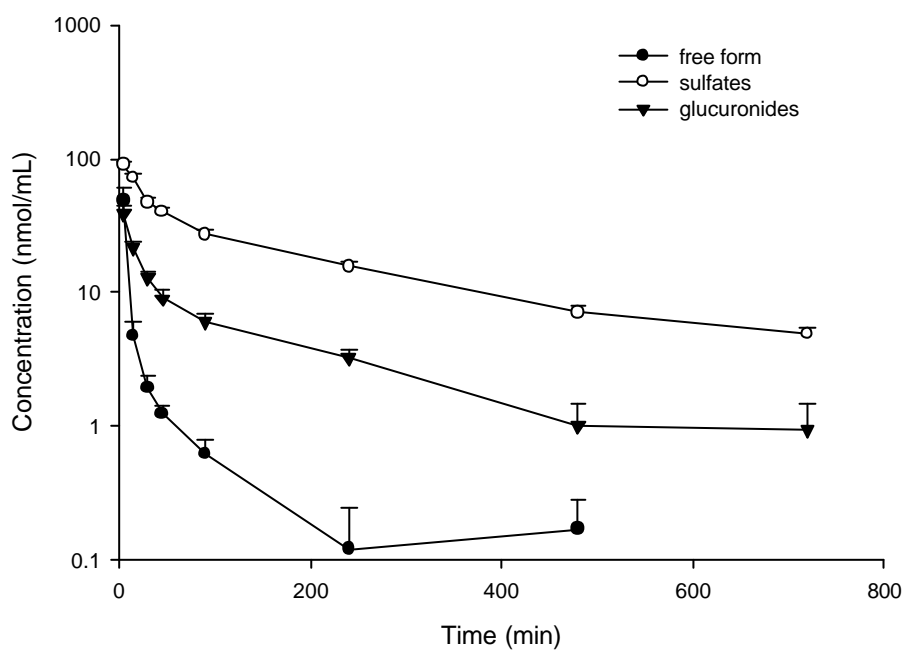


Fig. 1-1 Chromatograms of fisetin (F) and ethyl paraben (internal standard; IS) in rat serum: ( a ) blank serum ; ( b ) fisetin and IS spiked in blank serum , F: 21.8 nmol/mL ; ( c ) serum sample obtained after oral administration of 50 mg/kg fisetin , F: 19.3 nmol/mL

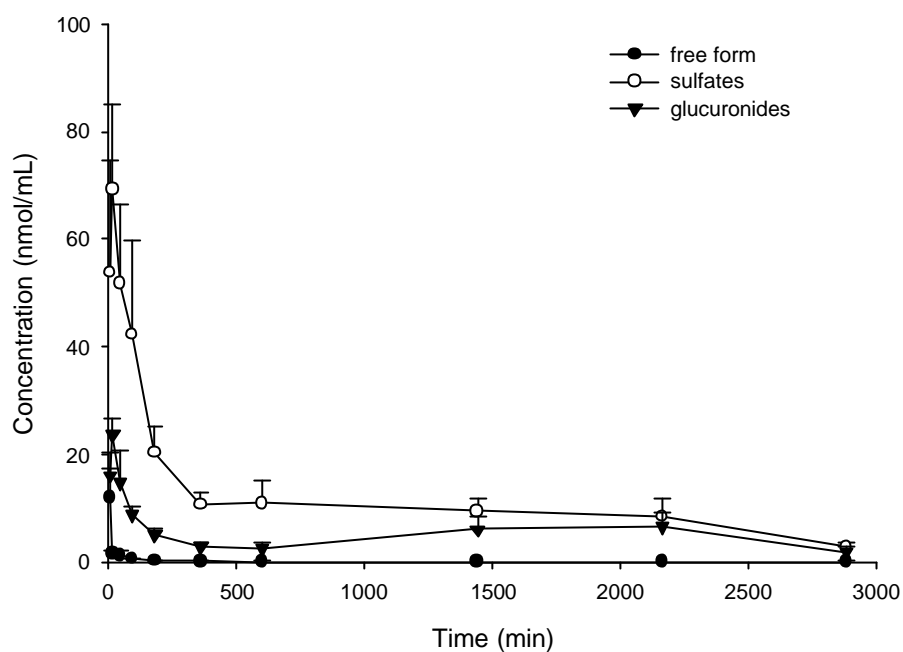


(a)

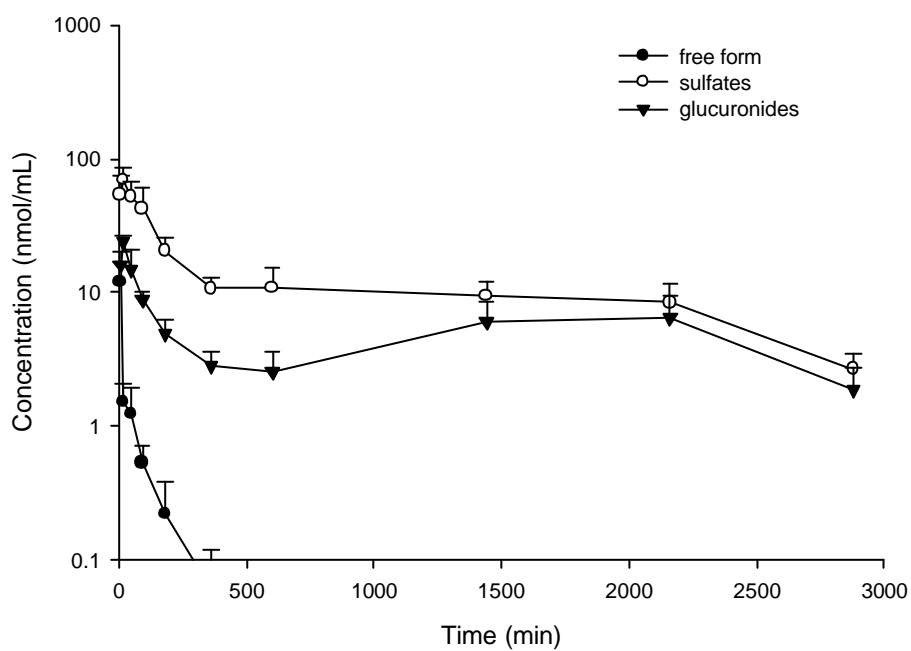


(b)

Fig. 1-2 (a) Mean ( $\pm$  S.E.) serum concentration-time profiles of fisetin (○), its sulfates (□) and glucuronides (▼) after intravenous administration of fisetin (10 mg/kg) to six rats and (b) the semi-log diagram of (a).

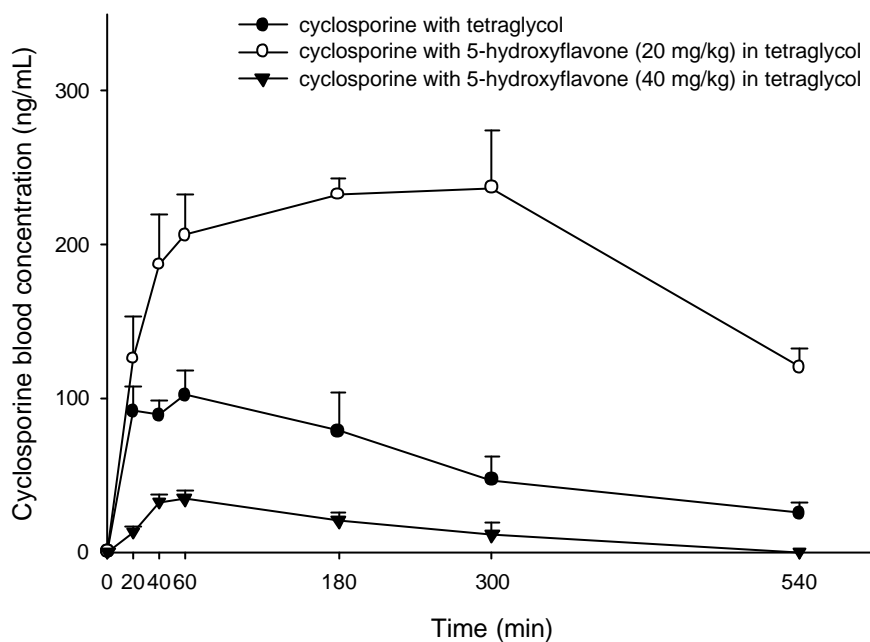


(a)

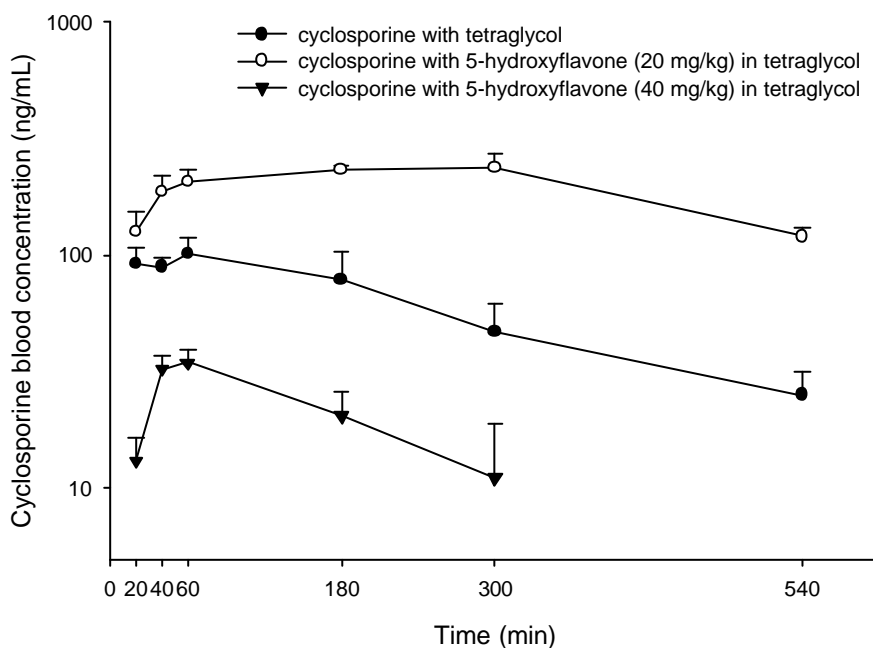


(b)

Fig. 1-3 (a) Mean ( $\pm$  S.E.) serum concentration-time profiles of fisetin free form (●), its sulfates (○) and glucuronides (▼) after oral administration of fisetin (50 mg/kg) to six rats and (b) the semi-log diagram of (a).

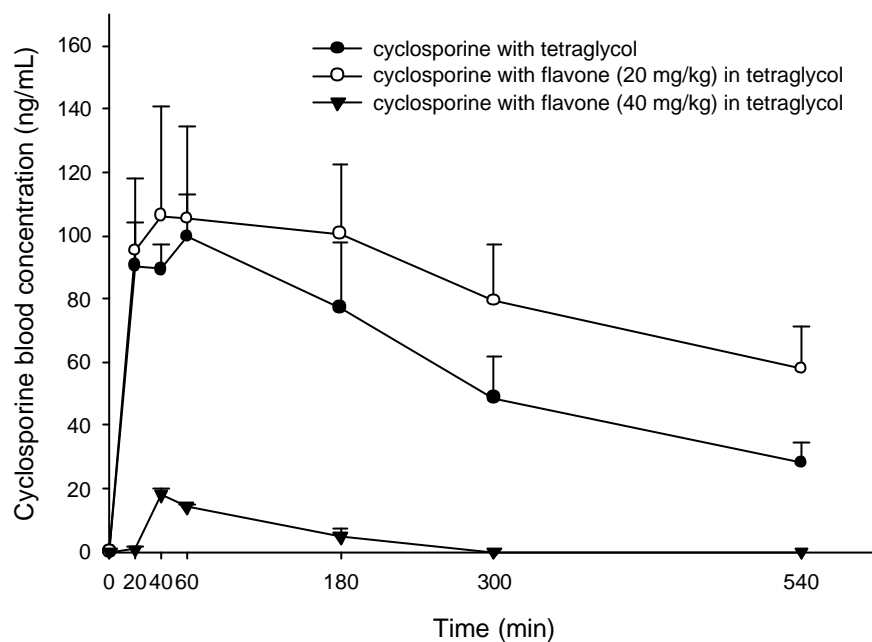


(a)

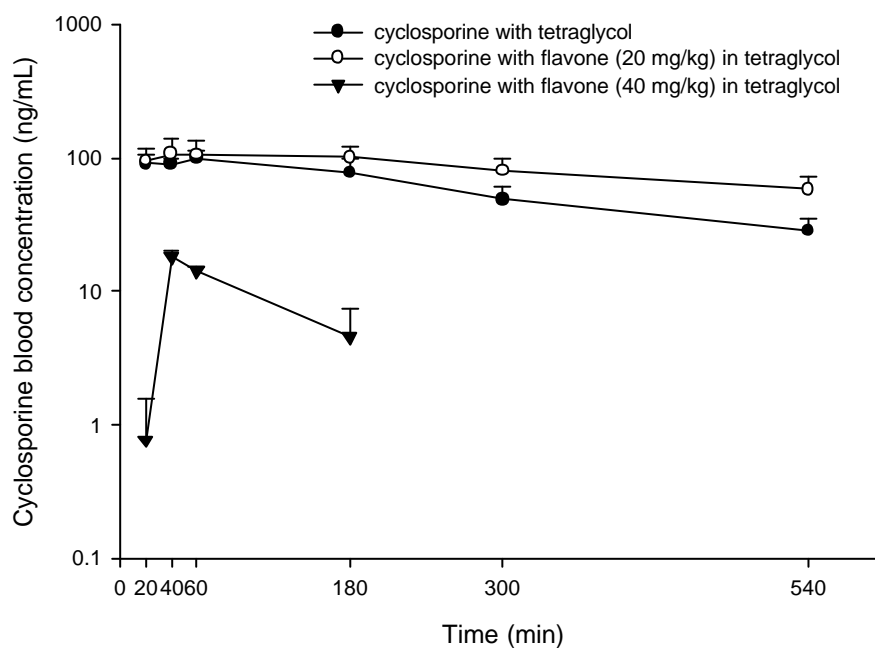


(b)

Fig 2-1 (a) Mean ( $\pm$  S.E.) blood concentration-time profiles of cyclosporine after oral administration of cyclosporine alone (●) and coadministration with 5-hydroxyflavone at doses of 20 mg/kg (○) and 40 mg/kg (▼) and (b) the semi-log diagram of (a).

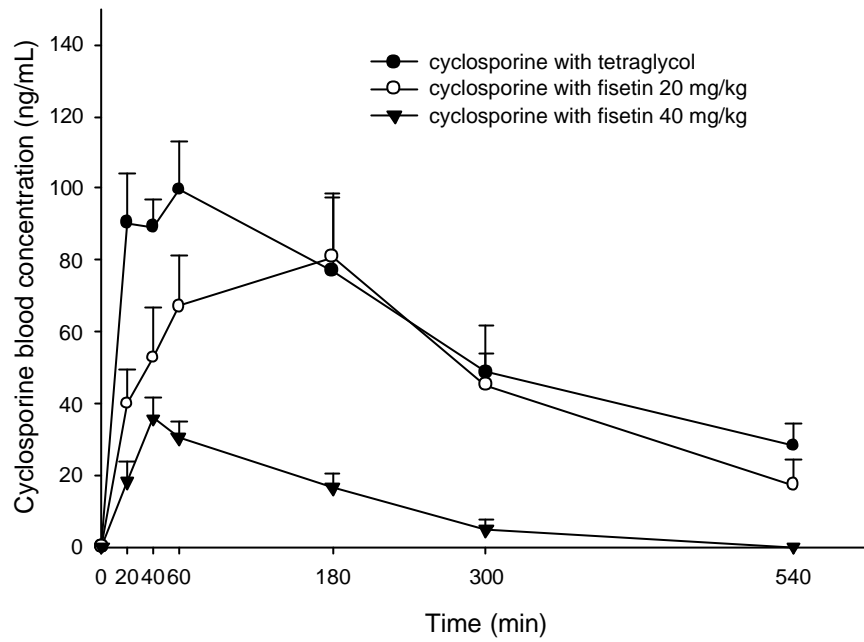


(a)

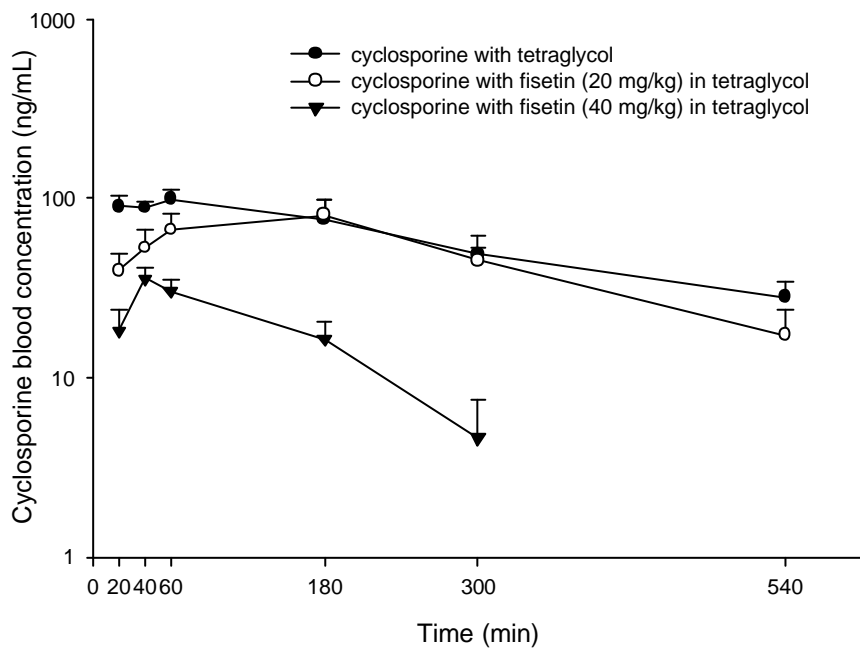


(b)

Fig 2-2 (a) Mean ( $\pm$  S.E.) blood concentration-time profiles of cyclosporine after oral administration of cyclosporine alone (●) and coadministration with flavone at doses of 20 mg/kg (○) and 40 mg/kg (▼) and (b) the semi-log diagram of (a).

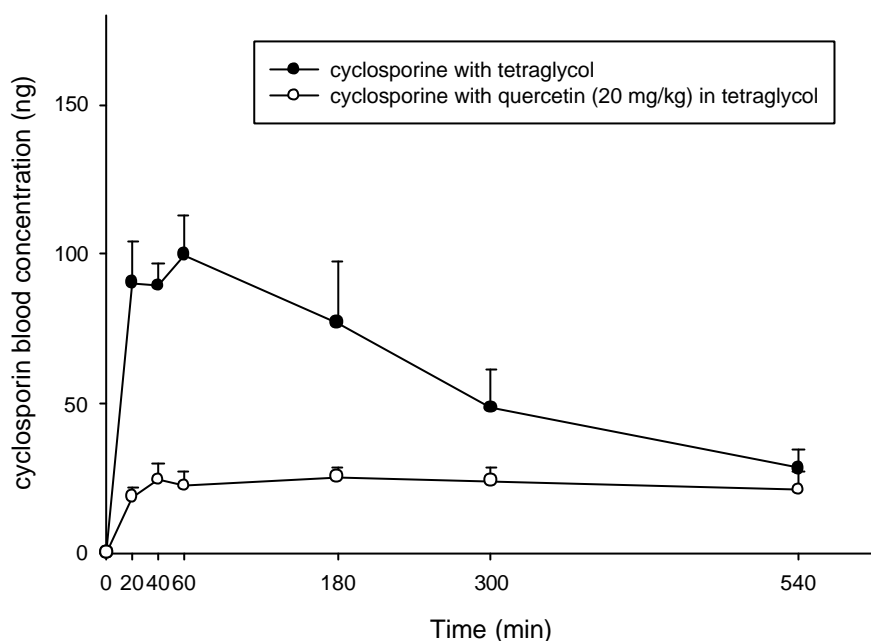


(a)

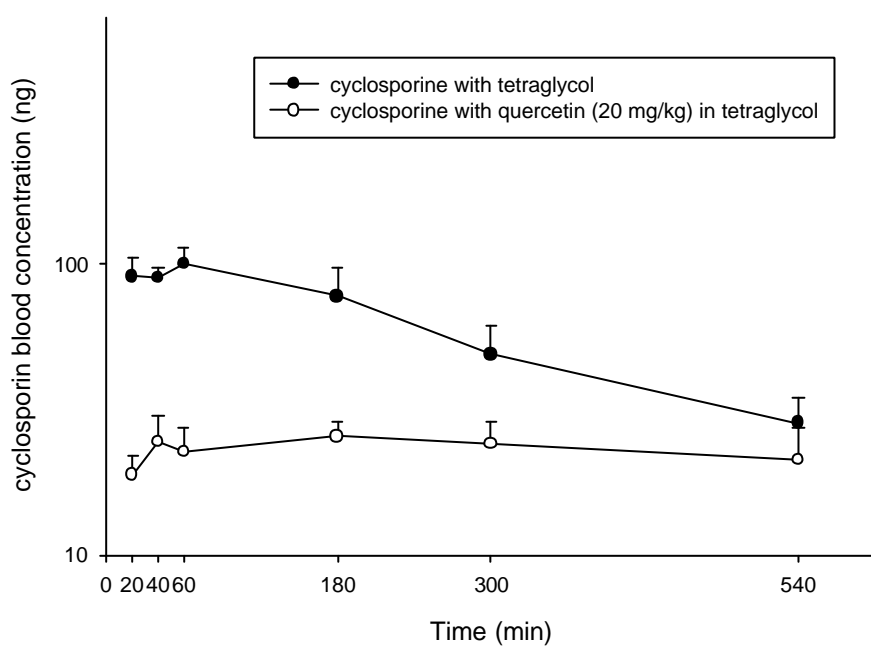


(b)

Fig 2-3 (a) Mean ( $\pm$  S.E.) blood concentration-time profiles of cyclosporine after oral administration of cyclosporine alone (●) and coadministration with fisetin at doses of 20 mg/kg (○) and 40 mg/kg (▼) and (b) the semi-log diagram of (a).



(a)



(b)

Fig 2-4 (a) Mean ( $\pm$  S.E.) blood concentration-time profiles of cyclosporine after oral administration of cyclosporine alone ( $\bullet$ ) and coadministration with quercetin at doses of 20 mg/kg ( $\circ$ ) and (b) the semi-log diagram of (a).

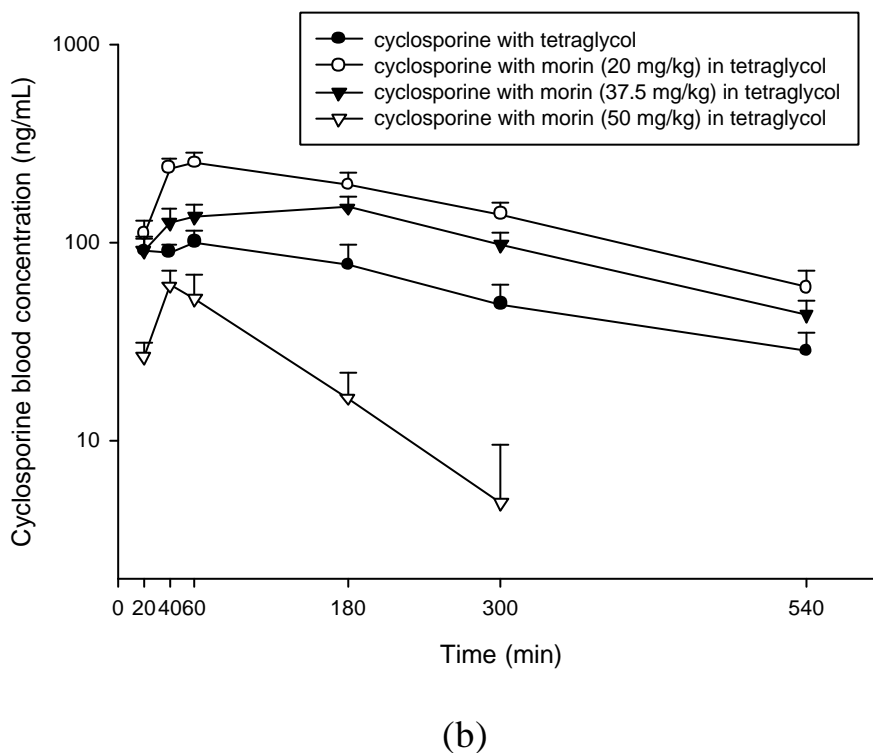
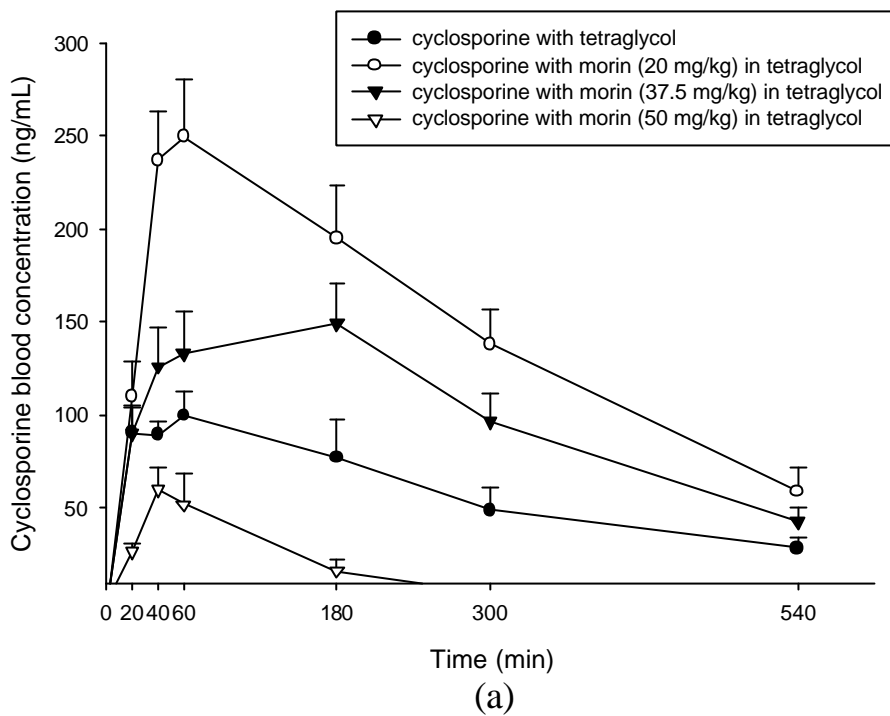


Fig 2-5 (a) Mean ( $\pm$  S.E.) blood concentration-time profiles of cyclosporine after oral administration of cyclosporine alone (●) and coadministration with morin at doses of 20 mg/kg (○), 37.5 mg/kg (▼) and 50 mg/kg (▽) and (b) the semi-log diagram of (a).



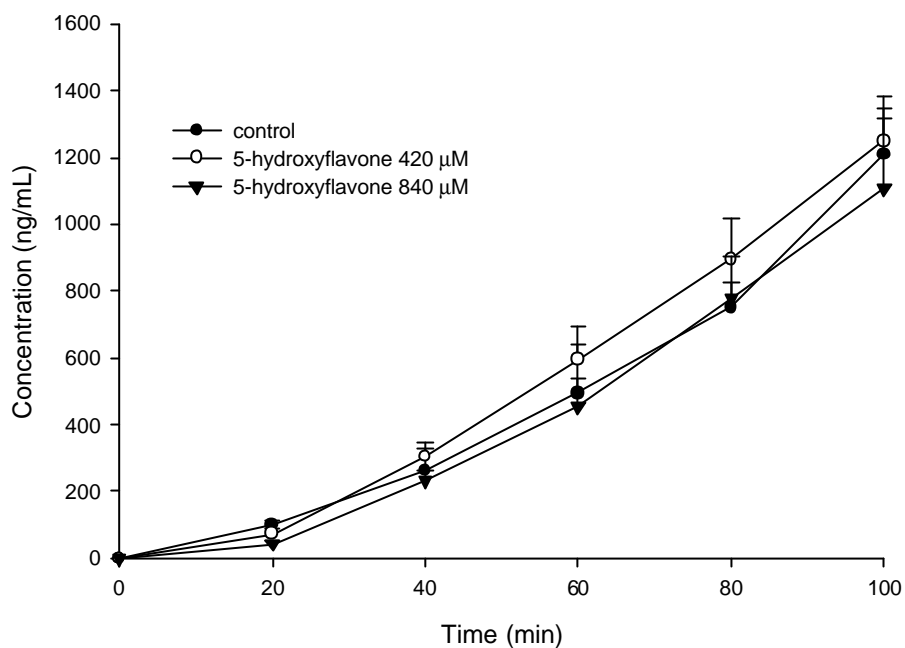


Fig 3-1 Average transport of rhodamine 123 (ng/mL) across jejunum in the absence (●) or presence of 420 μM (○) and 840 μM (▼) 5-hydroxyflavone, respectively.

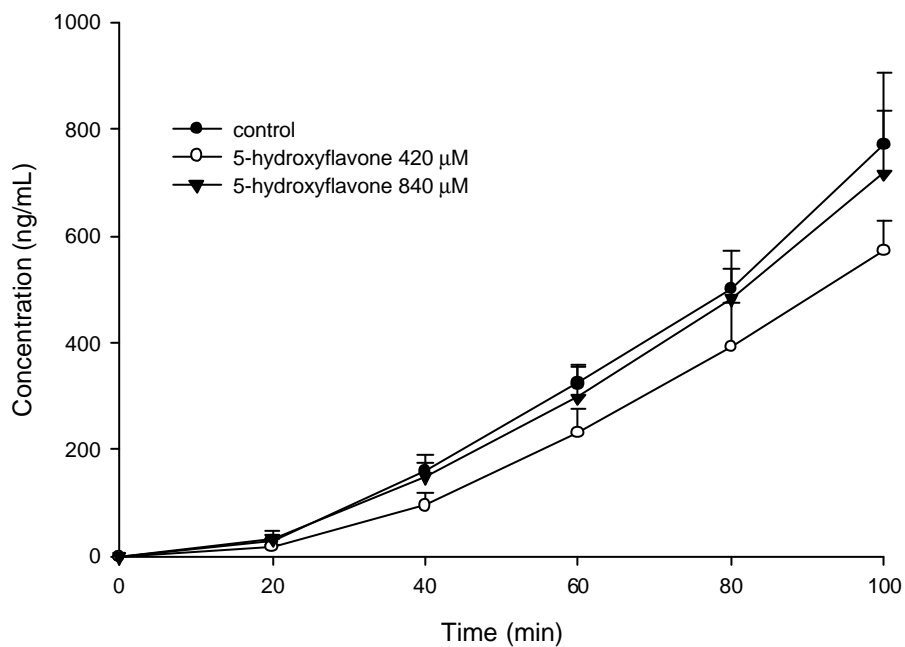


Fig 3-2 Average transport of rhodamine 123 (ng/mL) across ileum in the absence (●) or presence of 420 μM (○) and 840 μM (▼) 5-hydroxyflavone, respectively.

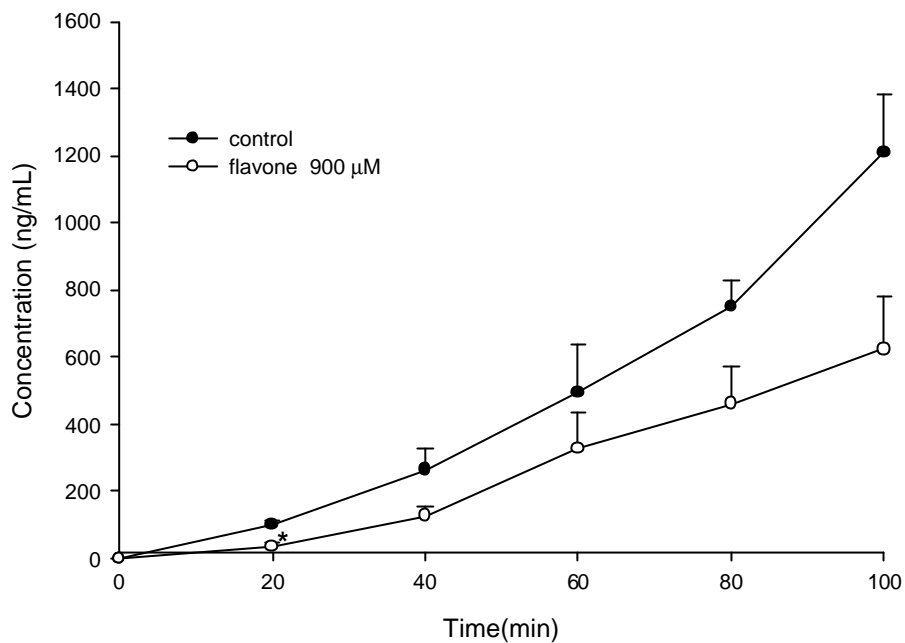


Fig 3-3 Average transport of rhodamine 123 (ng/mL) across jejunum in the absence (●) or presence of flavone (○).

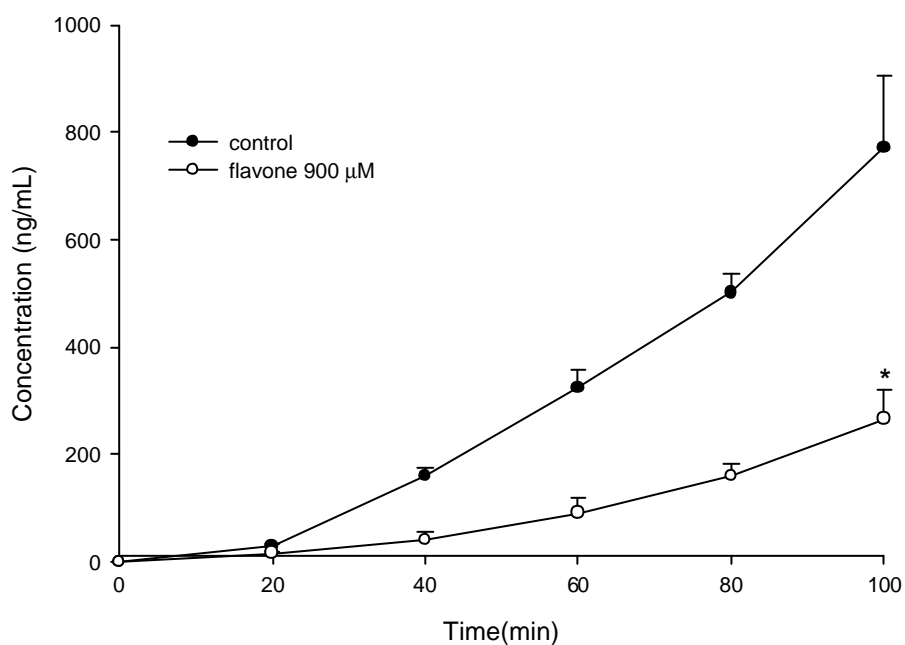


Fig 3-4 Average transport of rhodamine 123 (ng/mL) across ileum in the absence (●) or presence of flavone (○).

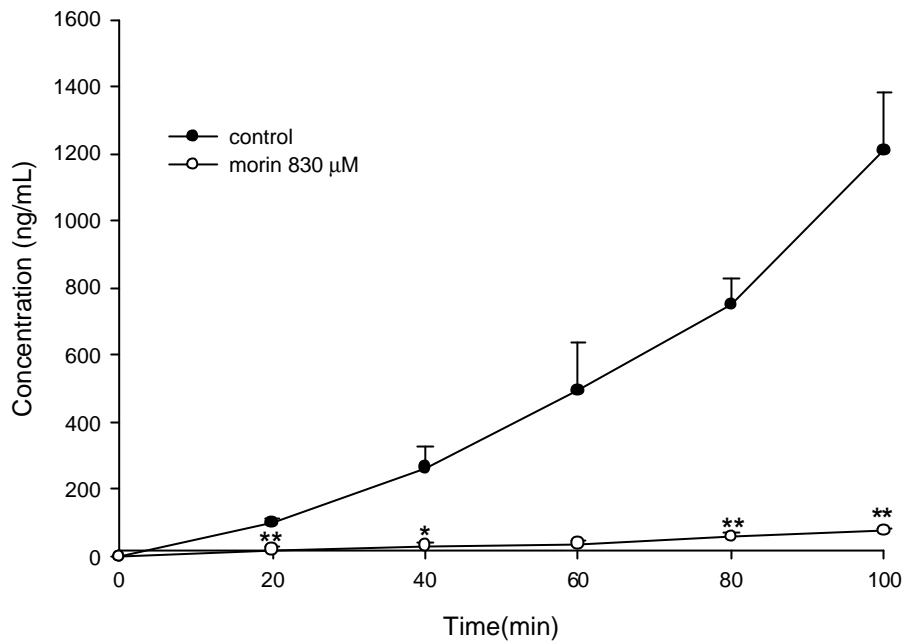


Fig 3-5 Average transport of rhodamine 123 (ng/mL) across jejunum in the absence (●) or presence of morin (○).

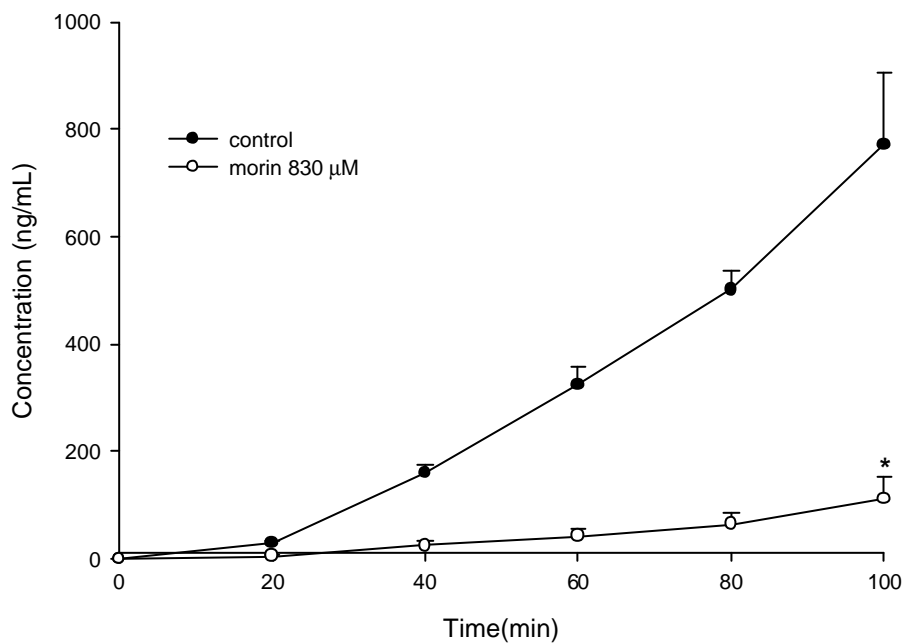


Fig 3-6 Average transport of rhodamine 123 (ng/mL) across ileum in the absence (●) or presence of morin (○).