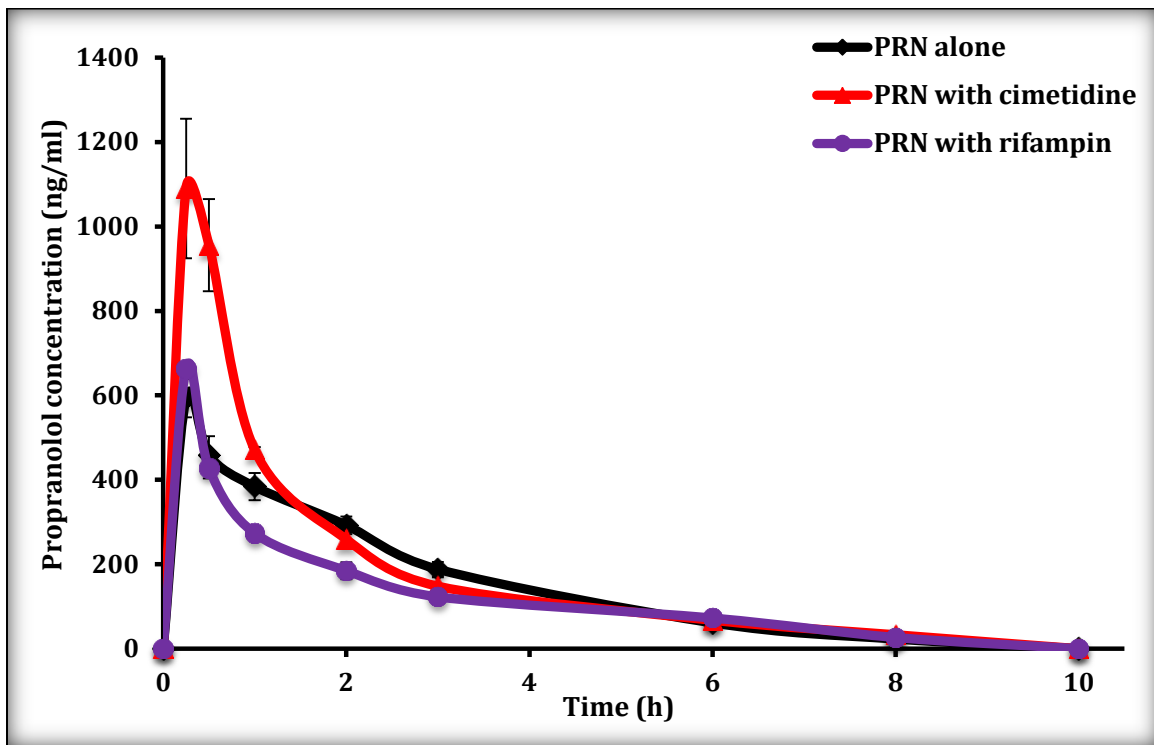


### 3.4.2 Effect of cimetidine and rifampin on PRN BA

Another set of experiments were carried out to study the effect of cimetidine and rifampin, as controls, on PRN BA using a single dose of 20 mg/kg PRN. The results showed that rifampin 9 mg/kg did not change PRN AUC and  $C_{max}$  ( $p>0.05$ ), whereas 5 mg/kg of cimetidine increased PRN  $C_{max}$  significantly by 86% ( $p<0.01$ ) and AUC by 20% ( $p>0.05$ ) (Table 3.49, Figure 3.20).



**Figure 3.20** *In vivo* serum concentration versus time curves of propranolol in rats after a single oral dose of 20 mg/kg of propranolol, propranolol with 5 and 9 mg/kg of cimetidine and rifampin, respectively. Each data point represents the mean  $\pm$  SEM ( $n=5$ ).