3.4 I*n vivo* experiments

3.4.1 Effect of GlcN on PRN BA

Different sets of experiments were done to study the effect of GlcN on PRN BA. The experiments were performed to compare the effect of 100 and 200 mg/kg GlcN on PRN BA using a single dose of 20 mg/kg PRN. The results showed that 100 mg/kg did not change PRN AUC and Cmax ($p>0.05$). On the other hand, higher GlcN 200 mg/kg dose decreased PRN AUC and C_{max} significantly by 43% ($p<0.01$) and 34% ($p<0.05$), respectively **(Table 3.48, Figure 3.19)**. Conversely, none of the above mentioned tested combinations affected T_{max} values of PRN.

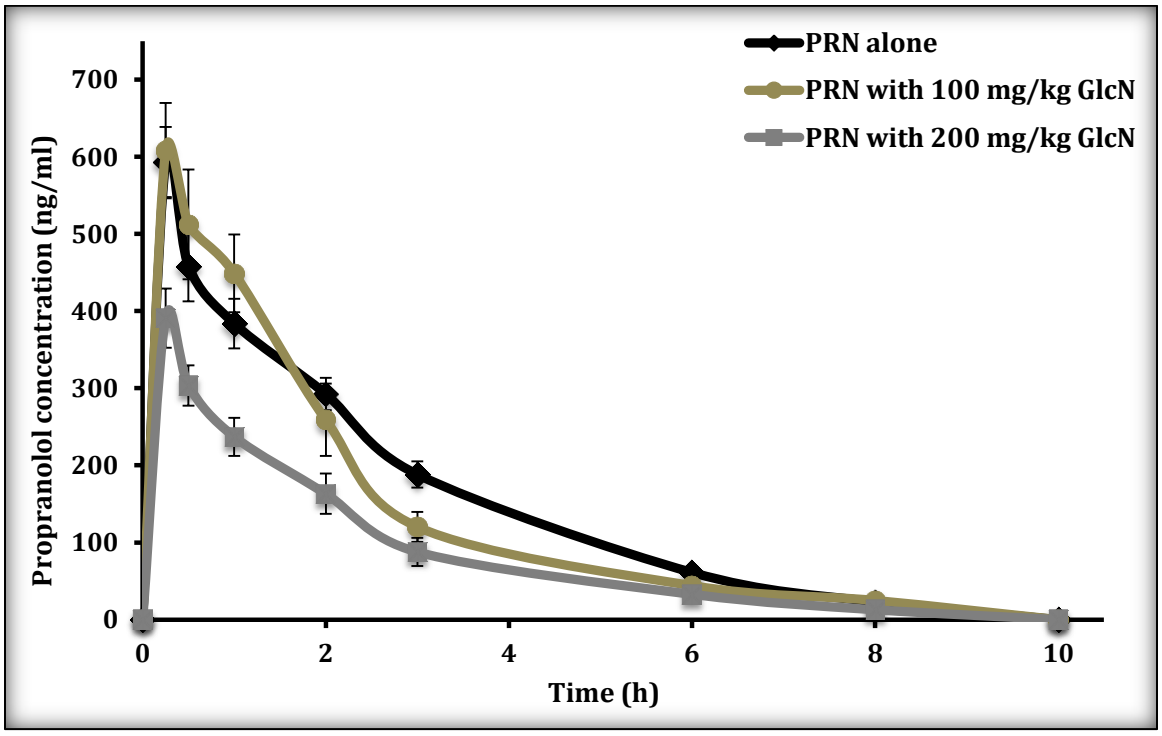

Figure 3.19 *In vivo* serum concentration versus time curves of propranolol in rats after a single oral dose of 20 mg/kg of propranolol, propranolol with 100 and 200 mg/kg of glucosamine. Each data point represents the mean ± SEM (n=7).