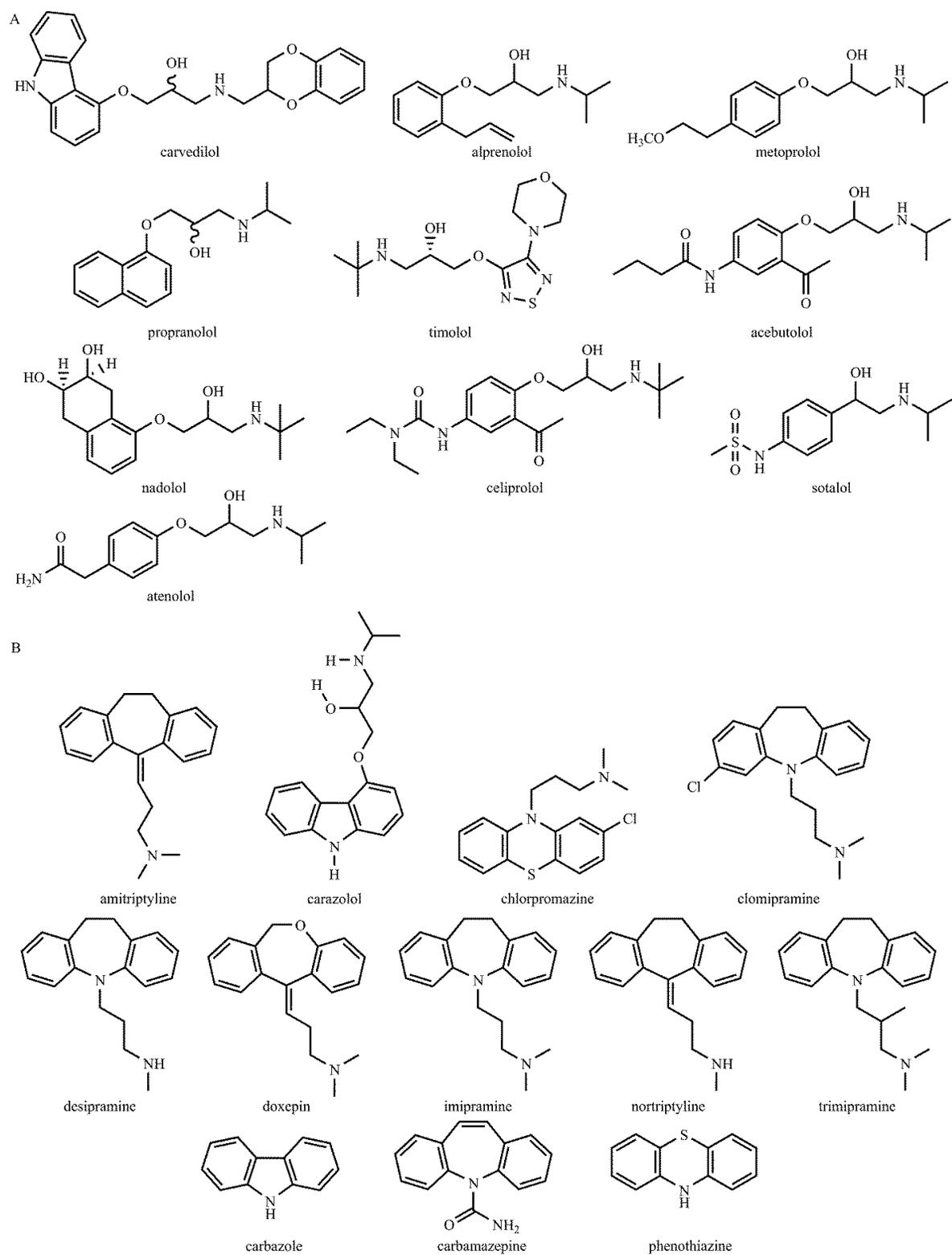


Supplemental Figures

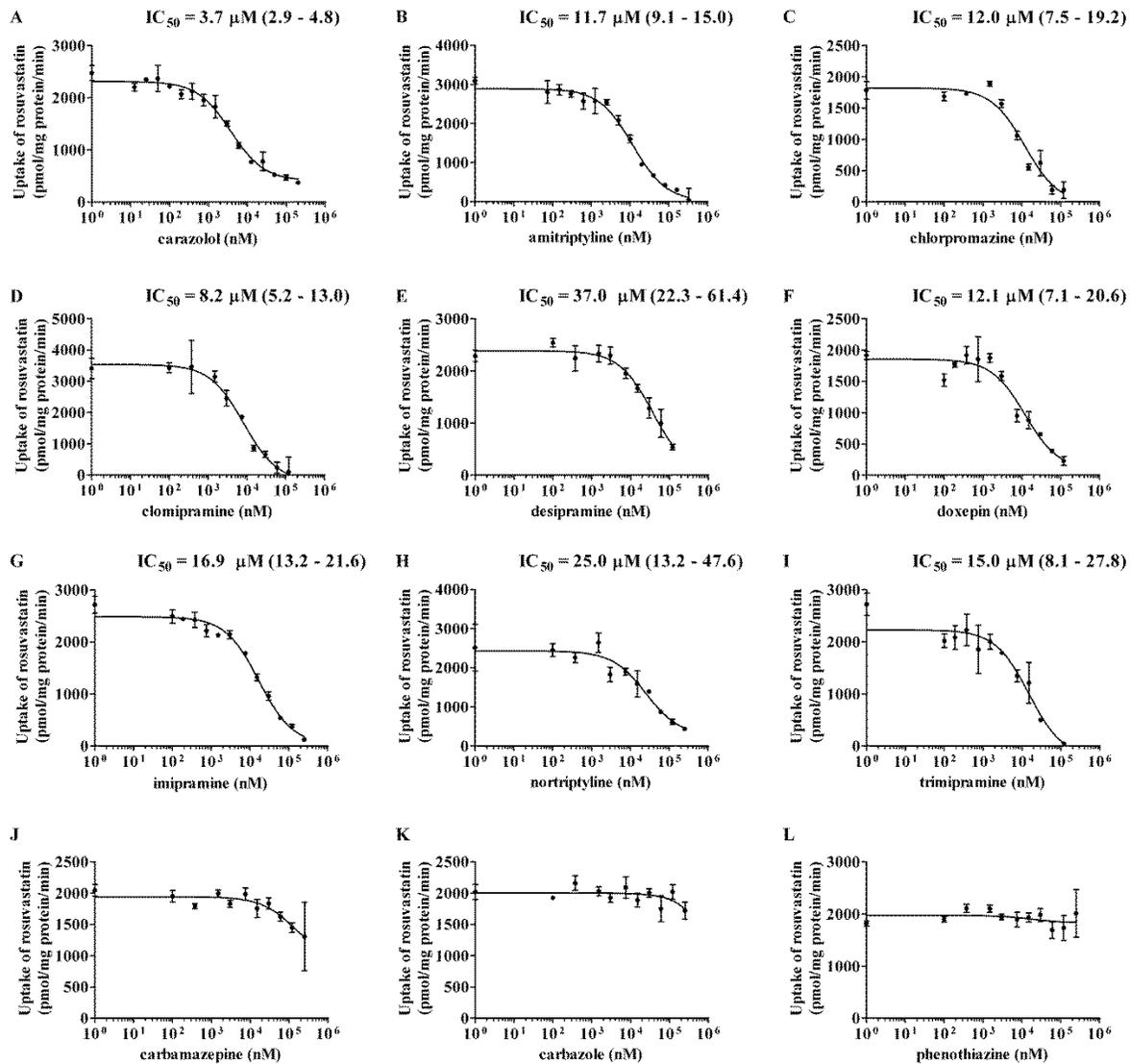
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Effects of β -blockers and tricyclic antidepressants on the activity of human organic anion transporting polypeptide 1A2 (OATP1A2)

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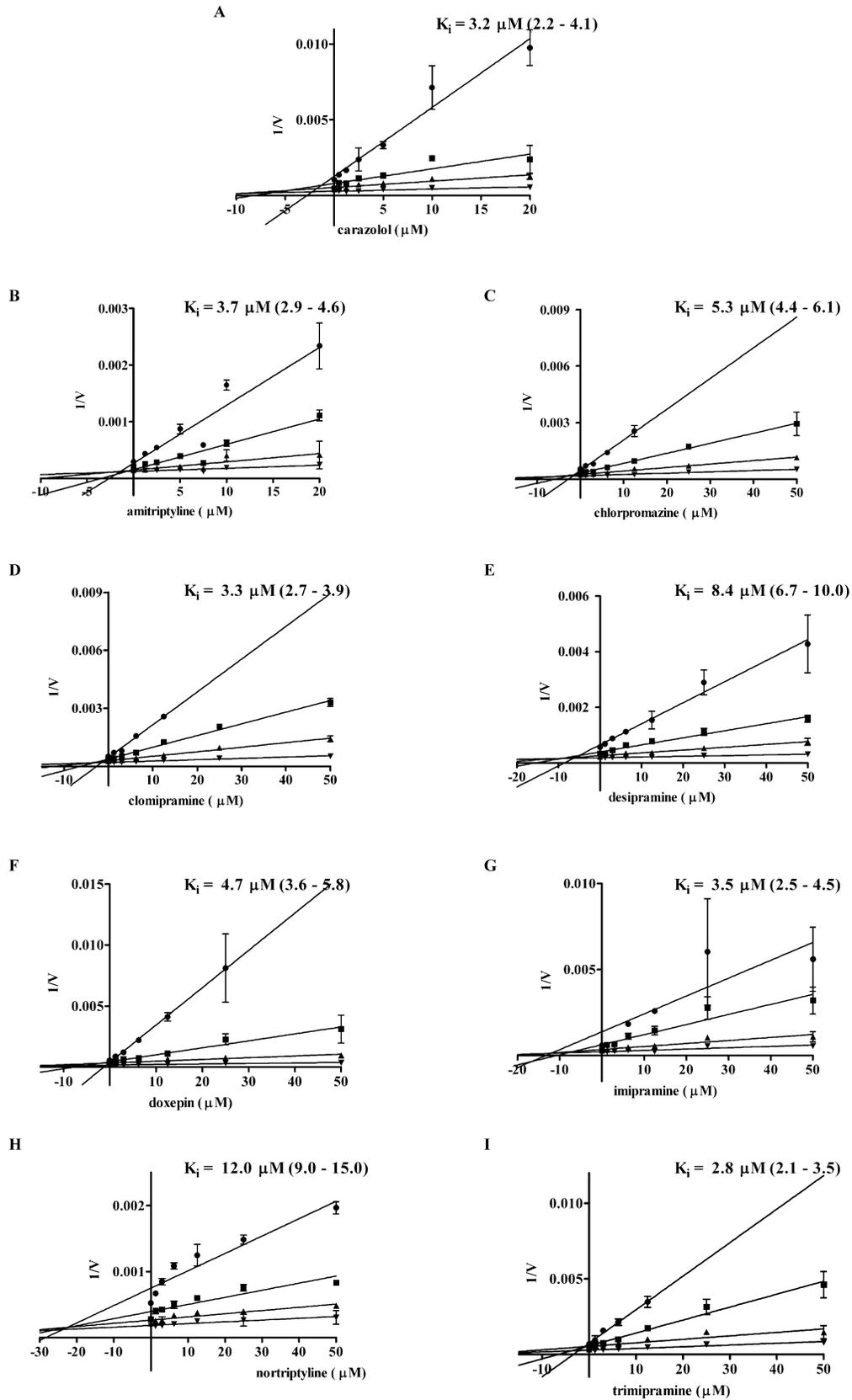


Supplemental Figure 1. Structures of (A) different β -blockers tested and (B) different tricyclic compounds tested.



Supplemental Figure 2. Inhibition of OATP1A2-mediated transport of rosuvastatin by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with rosuvastatin (150 μM) and different tricyclic compounds (12.5 nM – 250 μM) for 2 min at 37°C. The quantity of intracellular rosuvastatin was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. IC_{50} values were calculated by fitting the data to the log(inhibitor)

vs. response equation in GraphPad Prism. (A) carazolol; (B) amitriptyline; (C) chlorpromazine; (D) clomipramine; (E) desipramine; (F) doxepin; (G) imipramine; (H) nortriptyline; (I) trimipramine; (J) carbamazepine; (K) carbazole; and (L) phenothiazine. Each point represents the mean \pm S.D. of triplicate from a single experiment. The values in parentheses represent the 95% confidence interval.



Supplemental Figure 3. Dixon plots of inhibition of OATP1A2-mediated transport of rosuvastatin by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with rosuvastatin (25, 50, 100, 250 μM) and different tricyclic drugs (0.5 – 50 μM) for 2 min at 37°C. The quantity of intracellular rosuvastatin was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. The x-axis represents the concentration of the inhibitor and the y-axis represents the reciprocal velocity ($1/V$). Linear regression was used to fit each set of data and the intercept of all lines represents the $-K_i$. The K_i was accurately calculated in GraphPad Prism. (●) 25 μM rosuvastatin; (■) 50 μM rosuvastatin; (▲) 100 μM rosuvastatin; (▼) 250 μM rosuvastatin. (A) carazolol; (B) amitriptyline; (C) chlorpromazine; (D) clomipramine; (E) desipramine; (F) doxepin; (G) imipramine; (H) nortriptyline; and (I) trimipramine. The values in parentheses represent the 95% confidence interval.