

## **Supplemental Material**

Drug Metabolism and Disposition

### **Dietary regulation of mouse intestinal P450 expression and drug metabolism**

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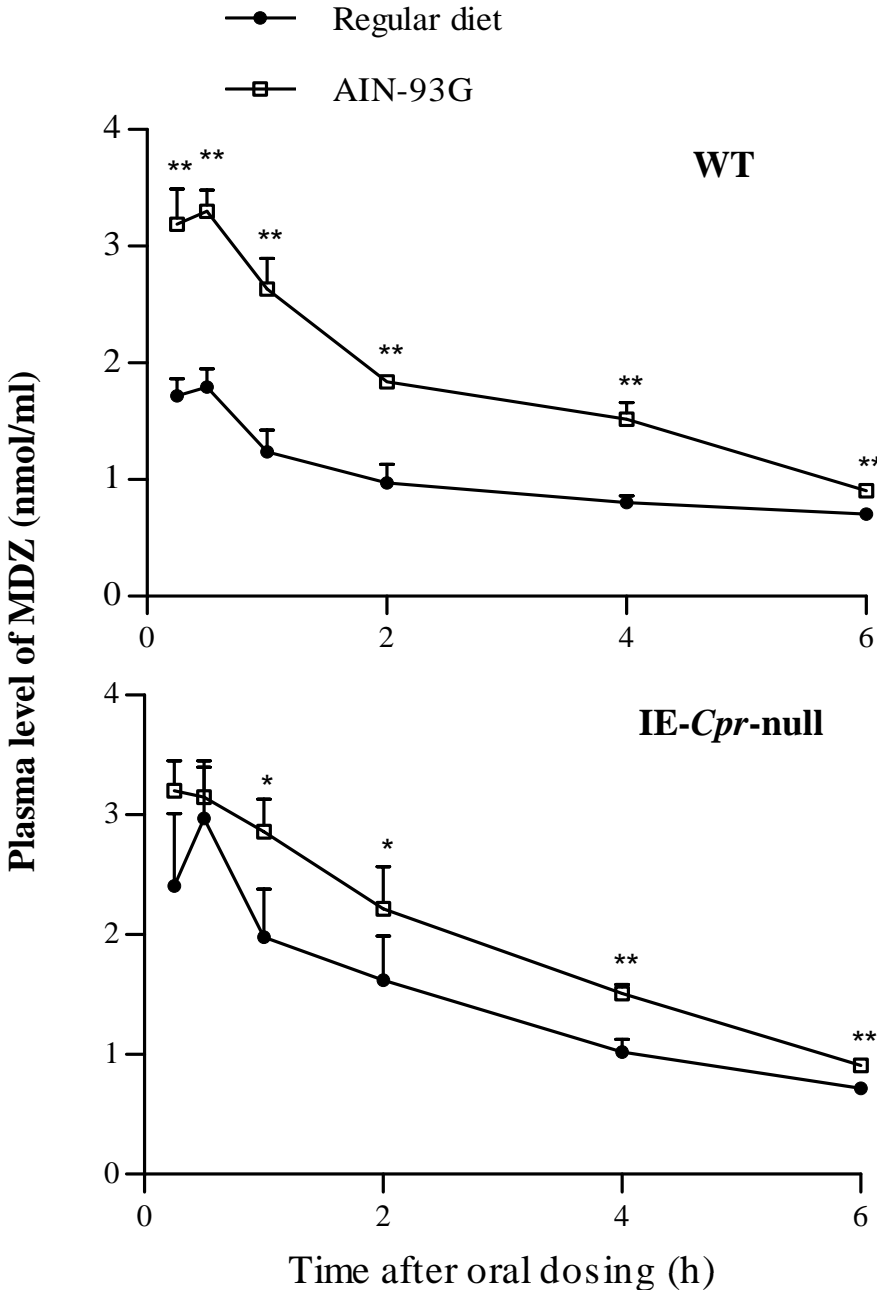
### **Legends for Supplemental Figures**

**Supplemental Fig. 1.** Pharmacokinetic analysis of plasma MDZ in WT and IE-*Cpr*-null mice fed with regular or synthetic diet. Experimental conditions and calculated pharmacokinetic parameters are shown in Table 1. Data represent means  $\pm$  S.D. ( $n = 4-6$ ). \*,  $P < 0.05$ ; \*\*,  $P < 0.01$ , compared with the corresponding *Regular diet* group (Student's t test). Direct comparisons between the dietary groups for each mouse strain are shown in *Supplemental Figure 2*.

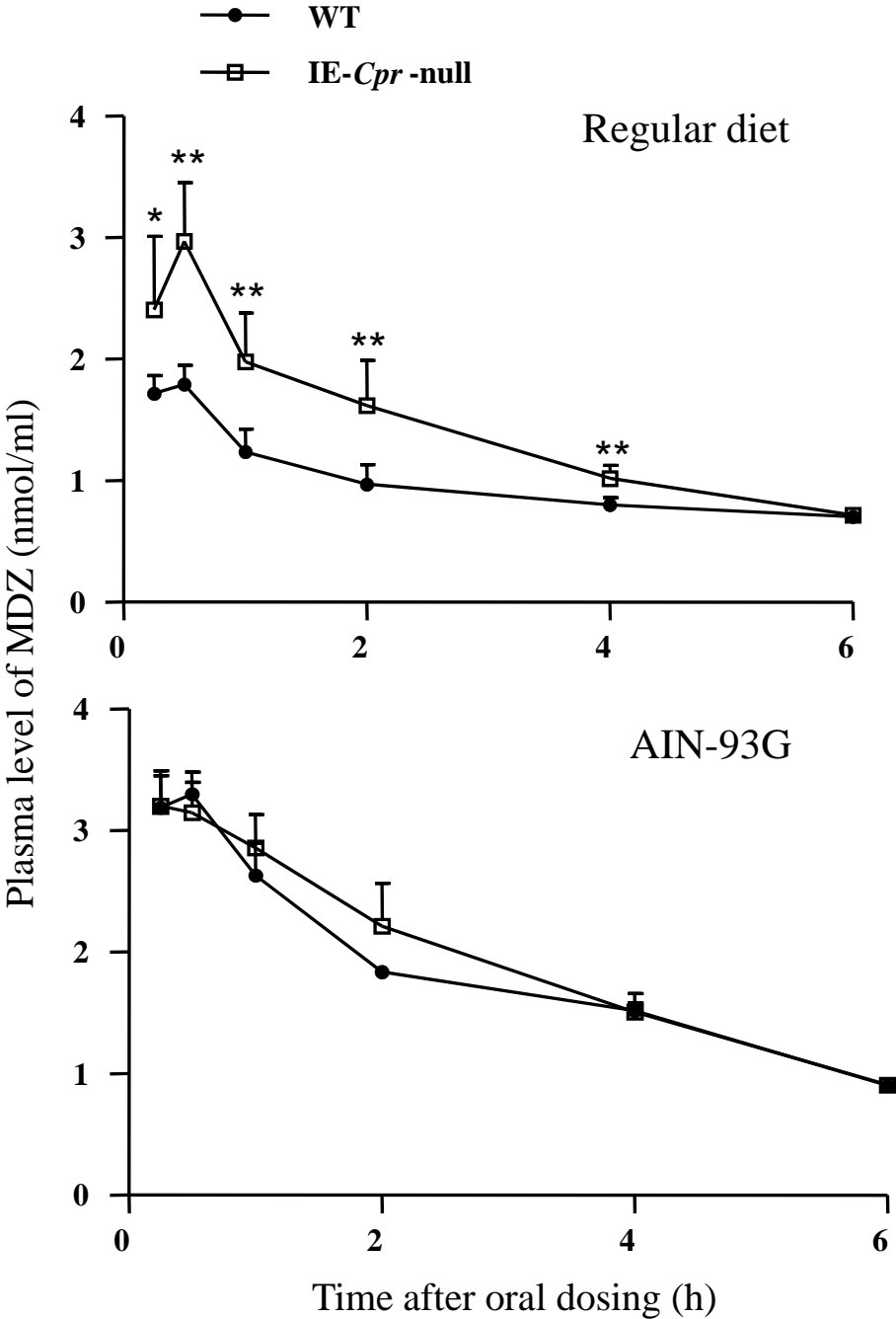
**Supplemental Fig. 2.** Data from *Supplemental Figure 1* are re-plotted to show a direct comparisons between the dietary groups for each mouse strain.

**Supplemental Fig. 3.** BA levels in plasma, liver, SI epithelium, and intestinal contents of adult male IE-*Cpr*-null mice fed with regular or synthetic diet. Five different BAs were determined using LC-MS/MS as described in *Materials and Methods*. Results are shown as means  $\pm$  S.D ( $n = 6$ ). \*,  $P < 0.05$ ; \*\*,  $P < 0.01$ , compared with the corresponding *Regular diet* group.

Supplemental Fig. 1



Supplemental Fig. 2



# Supplemental Fig. 3

