PXR mediates mifepristone-induced hepatomegaly in mice (Supplementary Materials)

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Supplemental Figures

Supporting Figure-1

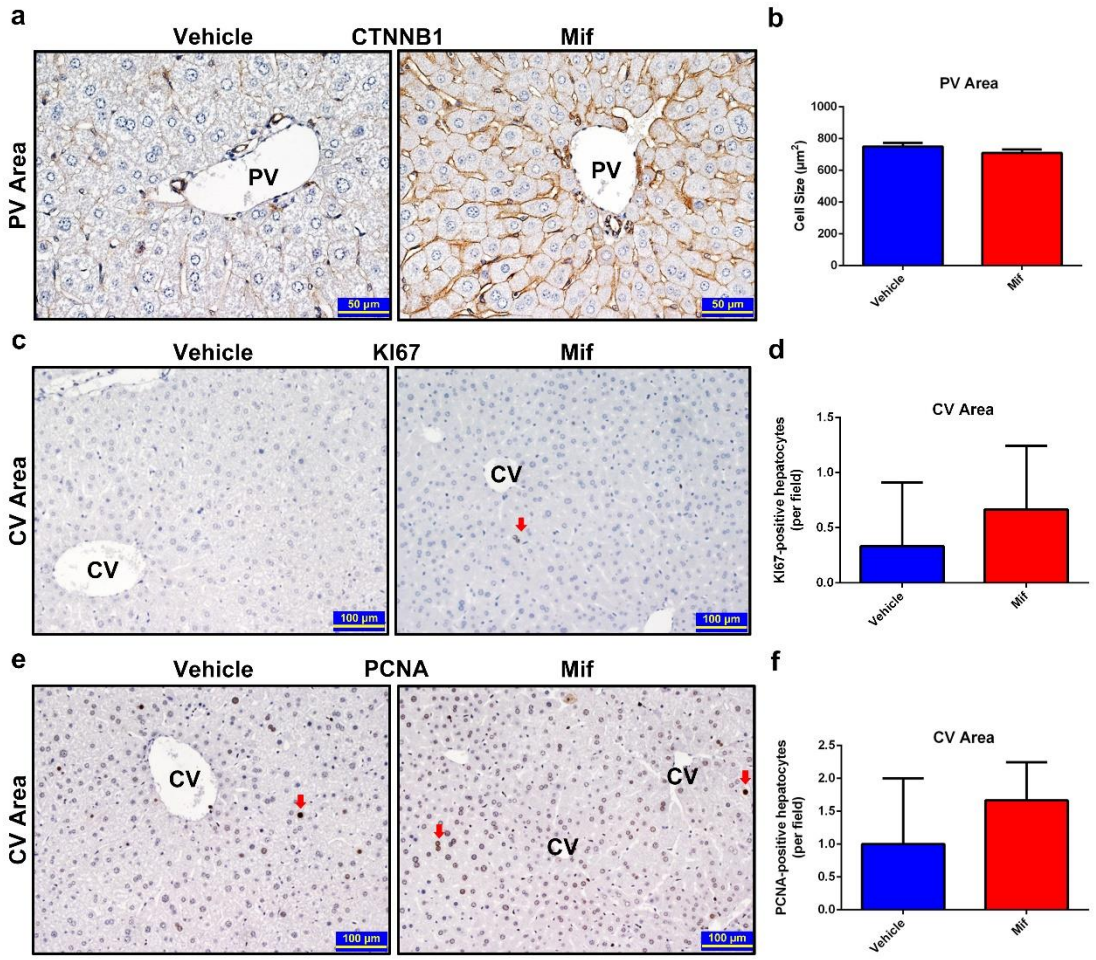

Figure S1 Mif cannot induce hepatocyte enlargement around the PV area and hepatocyte proliferation around the CV area.

(a) IHC staining of CTNNB1 of mice liver measuring hepatocyte size around the PV area of the vehicle- or Mif-treated group. (b) Quantification of the hepatocyte size around the PV area. (c) IHC staining of KI67 of liver sections around the CV area of the vehicle- or Mif-treated mice. (d) Quantification of $KI67^+$ hepatocytes around CV area. (e) IHC staining of PCNA of liver sections around the CV area of the vehicle- or Mif-treated mice. (f) Quantification of $PCNA^+$ hepatocytes around the CV area. The data are shown as mean ± S.D. (n=3).

Supporting Figure-2

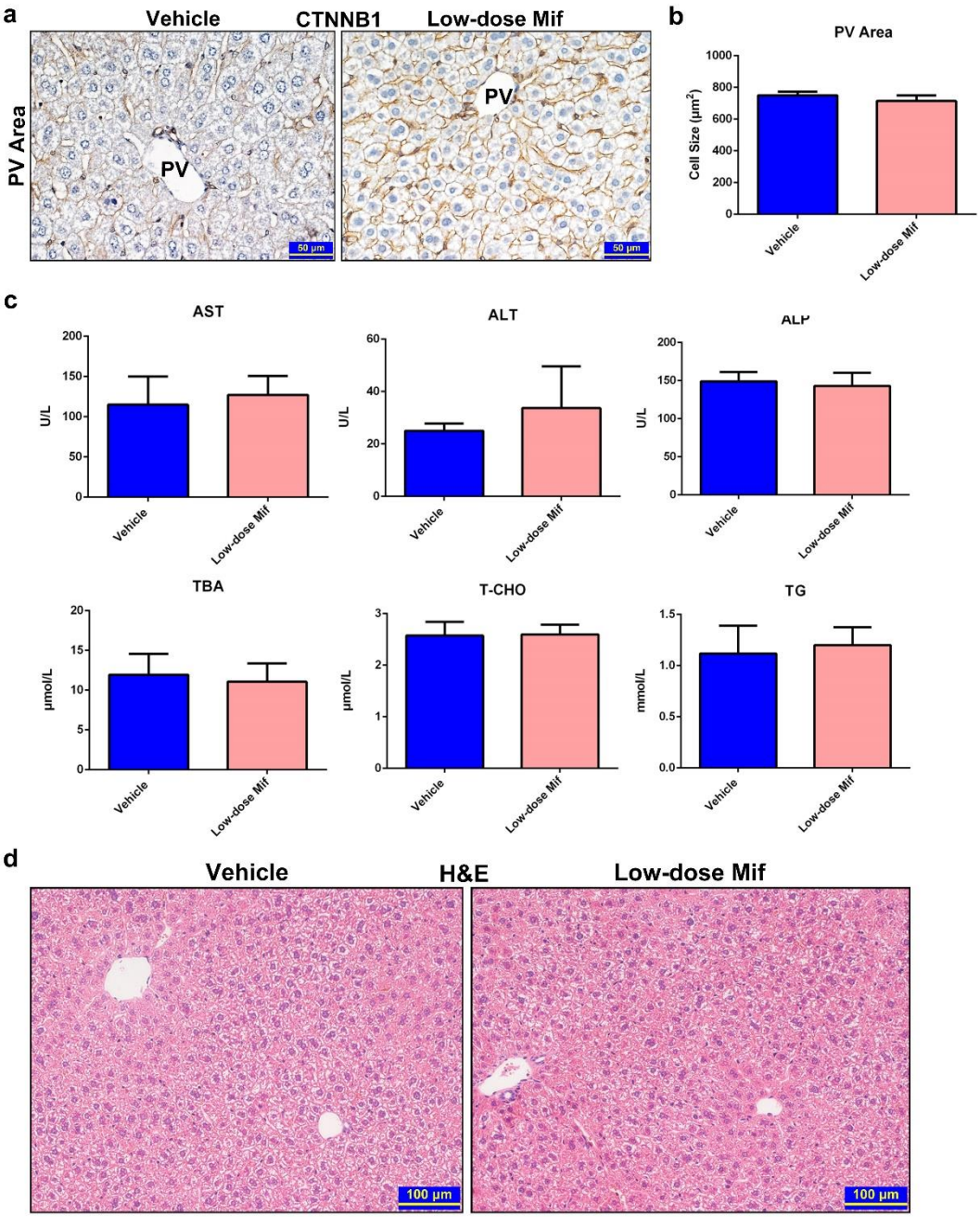

Figure S2 Hepatocyte enlargement and liver injury were not observed after treated with low-dose Mif.

(a) IHC staining of CTNNB1 of mice liver of the vehicle- or Mif-treated group. (b) Quantification of the hepatocyte size around PV area of mice liver in the vehicle- or Mif-treated group. (c) Biochemical indexes of serum samples including ALT, AST,

ALP, TBA, T-CHO and TG of the vehicle or Mif group. (d) H&E staining of liver sections of the vehicle group or Mif group.

Supporting Figure-3

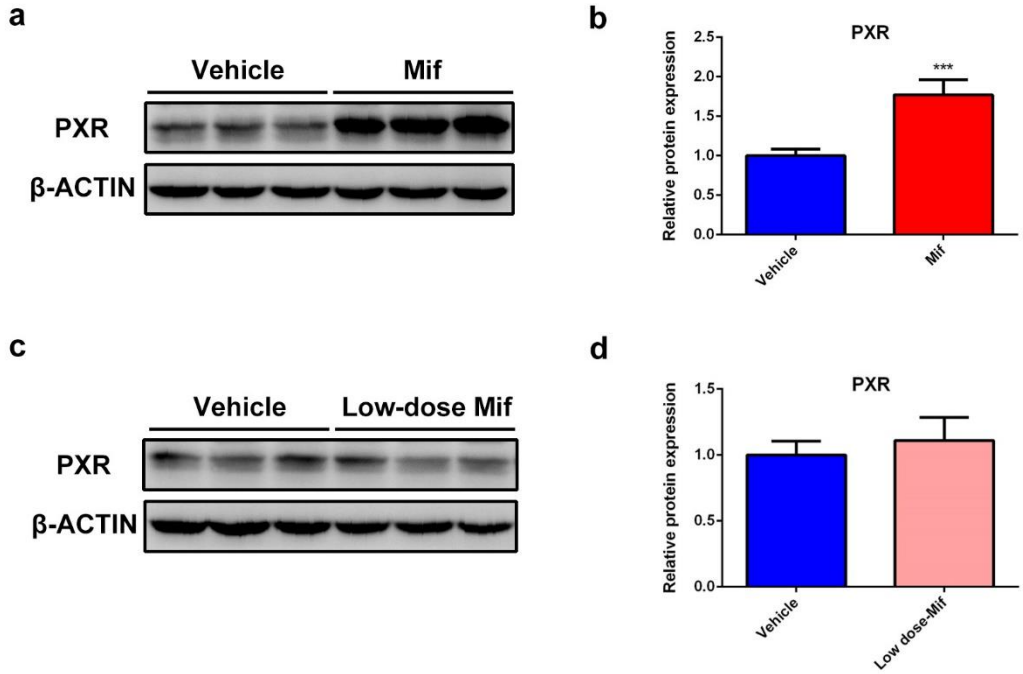

Figure S3 Mif induces the protein expression of PXR in a dose-dependent manner

(a) The protein expression levels of hepatic PXR in the vehicle or Mif group. (b) Quantification of PXR protein levels were normalized to the expression of β-ACTIN. (c) The protein expression levels of hepatic PXR in the vehicle or low-dose Mif group. (d) Quantification of PXR protein levels were normalized to the expression of β-ACTIN. The data are expressed as mean ± S.D. ***P<0.001 compared with the vehicle group (n = 3).

Supporting Figure-4

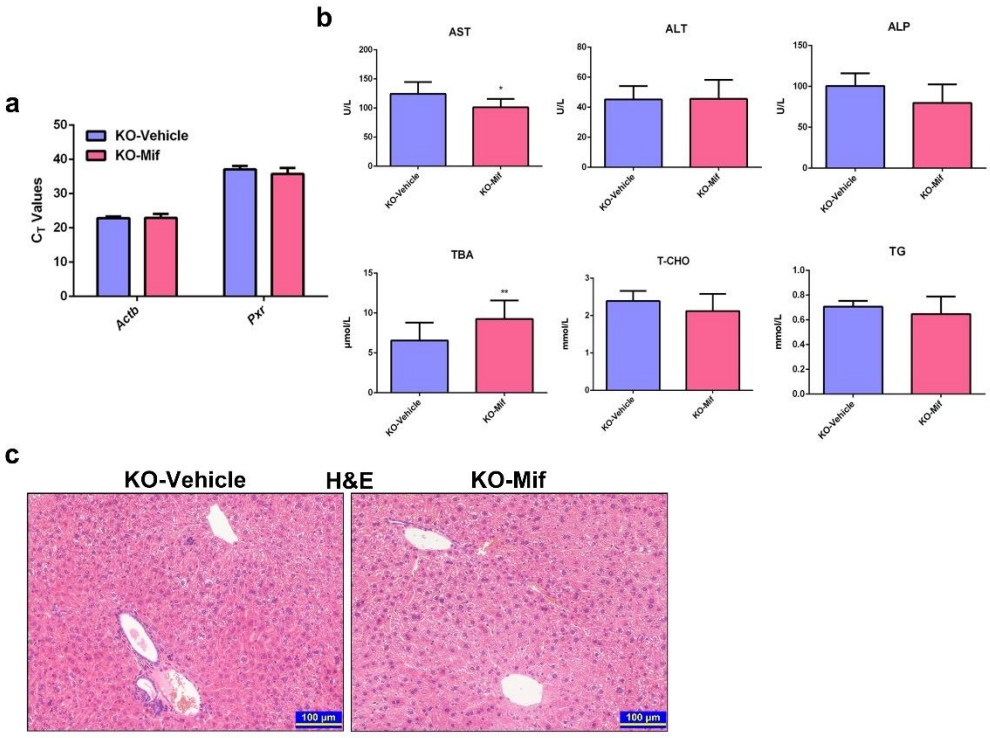

Figure S4 Liver injury was not induced in *Pxr*-knockout mice after treated with high-dose Mif.

(a) C_T values of qRT-PCR analysis in liver samples of *Pxr*-knockout mice treated with the vehicle or Mif. (b) Biochemical parameters of serum samples including ALT, AST, ALP, TBA, T-CHO and TG of KO-vehicle or KO-Mif group. (c) H&E staining of mice liver of the KO-vehicle group or KO-Mif group. These data are shown as mean ± S.D. **P*<0.05 and ***P*<0.01 compared with the vehicle group (n=4-6).

Supporting Table-1 Sequences of primers for quantitative real-time PCR.

Genes	Primers (5'-3') Forward	Primers (5'-3') Reverse
Pxr	GATGGAGGTCTTCAAATCTGCC	GGCCCTTCTGAAAAACCCCT
Cyp3a11	GGATGAGATCGATGAGGCTCTG	CAGGTATTCCATCTCCATCACAGT
Cyp2b10	TGCTGTCGTTGAGCCAACC	CCACTAAACATTGGGCTTCCT
Ugt1a1	GCTTCTTCCGTACCTTCTGTTG	GCTGCTGAATAACTCCAAGCAT
Il-6	TAGTCCTTCCTACCCCAATTTCC	TTGGTCCTTAGCCACTCCTTC
Il-10	CTTACTGACTGGCATGAGGATCA	GCAGCTCTAGGAGCATGTGG
Il-1β	GAAATGCCACCTTTTGACAGTG	TGGATGCTCTCATCAGGACAG
Tnf-α	CCCTCACACTCAGATCATCTTCT	GCTACGACGTGGGCTACAG
Actb	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT