Supplementary Data:

Figure S1. Effects of CAR and PXR on the expression of ADHs and ALDHs in human primary hepatocytes. HPH obtained from liver donor #7, #24, and #35 were treated with CITCO (1 μM), RIF (10 μM), or vehicle control (0.1% DMSO) for 24 h as outlined in the "*Methods*". Total RNA extracted from each treatment group was reverse transcribed and subjected to RT-PCR analysis for mRNA expression of ADH1B (A), ADH1C (B), ALDH1A1 (C), ALDH3A1 (D), and ALDH5A1 (E). 3-methylcholanthrene (5 μM) was used as a positive inducer of ALDH3A1. RT-PCR data obtained from three independent experiments were expressed as mean ± SD normalized against vehicle control.

Figure S2. Activation of CAR alone does not decrease the viability of HL-60 cells in the human primary hepatocyte-HL-60 cell co-culture system. HPH-HL-60 co-cultures were treated with vehicle control (0.1% DMSO), CITCO (0.5, 1, and 5 μM), CPA (500 μM) or CPA (500 μM) + CITCO (1 μM) for 48 h. An aliquot of HL-60 cells (20 μL) from each group was collected at 24, 36, and 48 h after treatment, and cell viability was analyzed as detailed in the "*Method*". All viability data represent mean ± SD from three independent experiments and are expressed as percent viability of vehicle control.

Figure S1

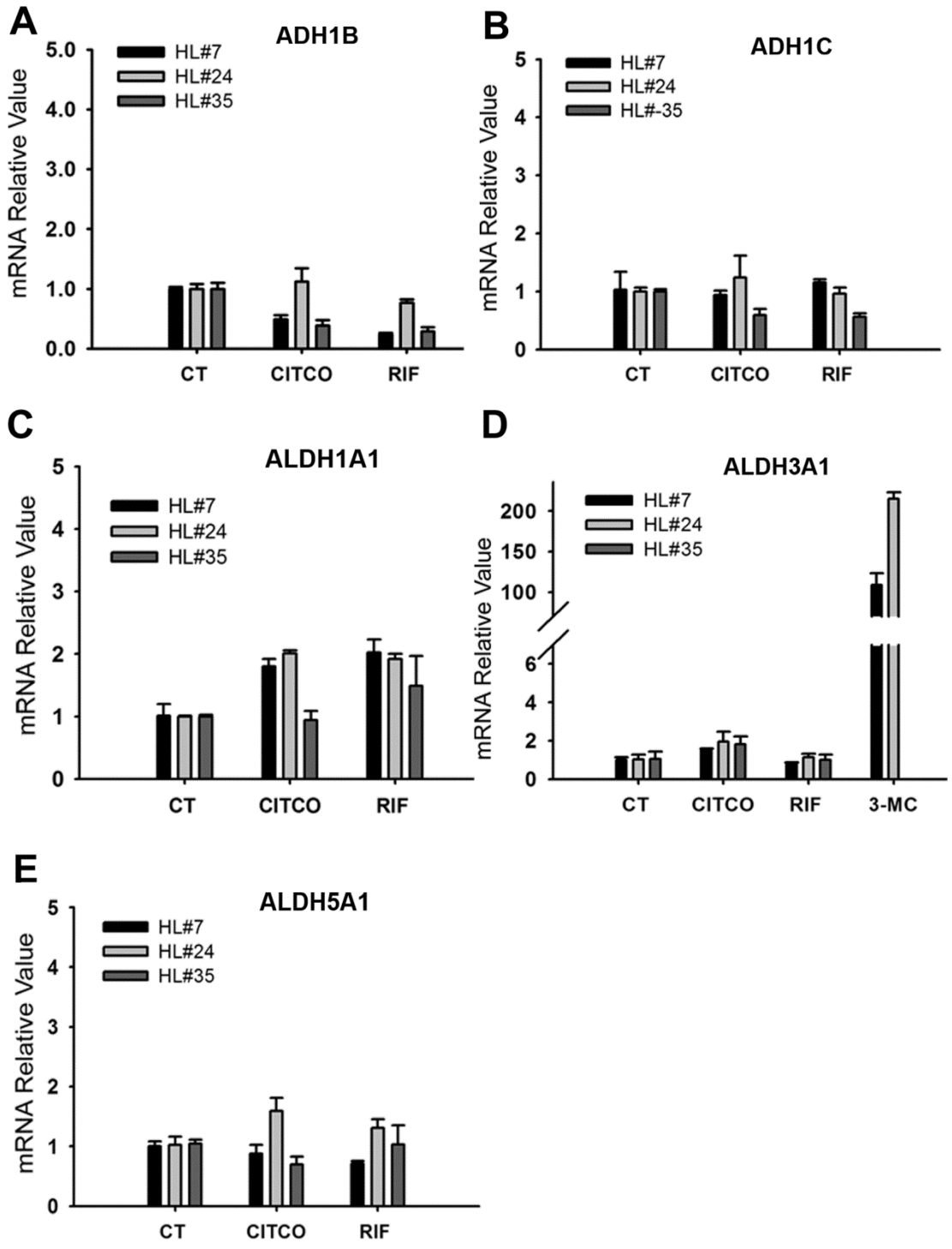
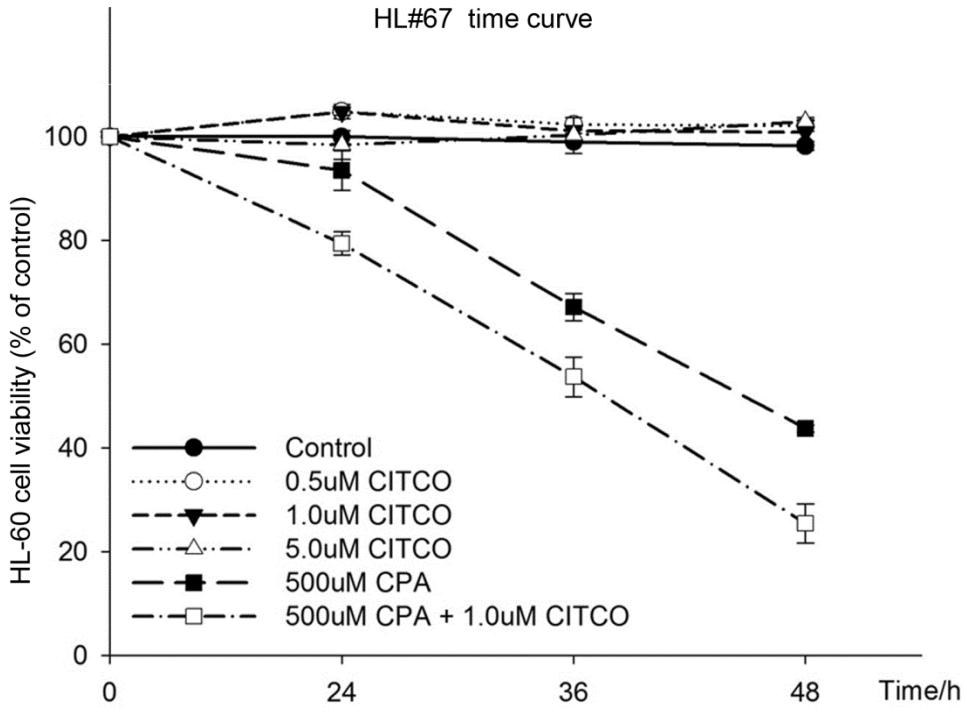

A
ADH1B
HL#7
HL#24
HL#35
mRNA Relative Value
5.0
4.0
3.0
2.0
1.0
0.0
CT
CITCO
RIF
B
ADH1C
HL#7
HL#24
HL#-35
mRNA Relative Value
5
4
3
2
1
0
CT
CITCO
RIF
C
ALDH1A1
HL#7
HL#24
HL#35
mRNA Relative Value
5
4
3
2
1
0
CT
CITCO
RIF
D
ALDH3A1
HL#7
HL#24
HL#35
mRNA Relative Value
200
150
100
6
4
2
0
CT
CITCO
RIF
3-MC
E
ALDH5A1
HL#7
HL#24
HL#35
mRNA Relative Value
5
4
3
2
1
0
CT
CITCO
RIF

Figure S2


HL#67 time curve
HL-60 cell viability (% of control)
100
80
60
40
20
0
0
24
36
48
Time/h
Control
0.5uM CITCO
1.0uM CITCO
5.0uM CITCO
500uM CPA
500uM CPA + 1.0uM CITCO