



Supplementary Figure 7. Bile acid directly affected JCAD expression in HSCs. (A) Western blot analysis of JCAD protein level in human HSC lines. β -Actin was used as a loading control (n=3). (B) JCAD gene expression levels were analyzed in human HSC line (n=3). (C) Primary HSCs were isolated from normal mice. JCAD gene expression was quantified by qRT-PCR. HSCs from 3 livers were pooled to increase the yield and were seen as one *ex vivo* experiment, and experiments were repeated for 3 times. All data were expressed as mean \pm SD. *** P <0.05 and 0.01 compared to Ctrl-DMEM.