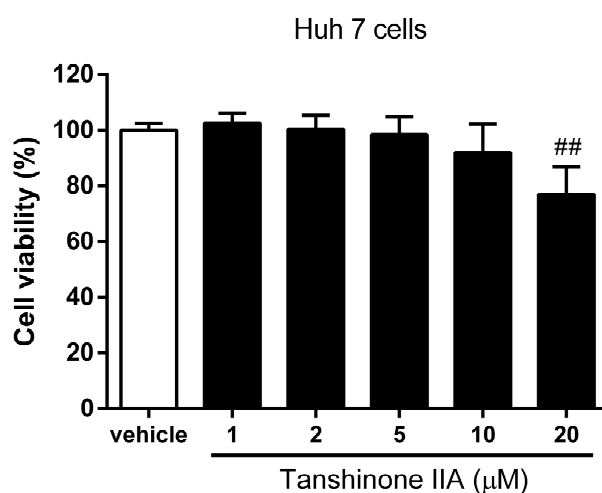




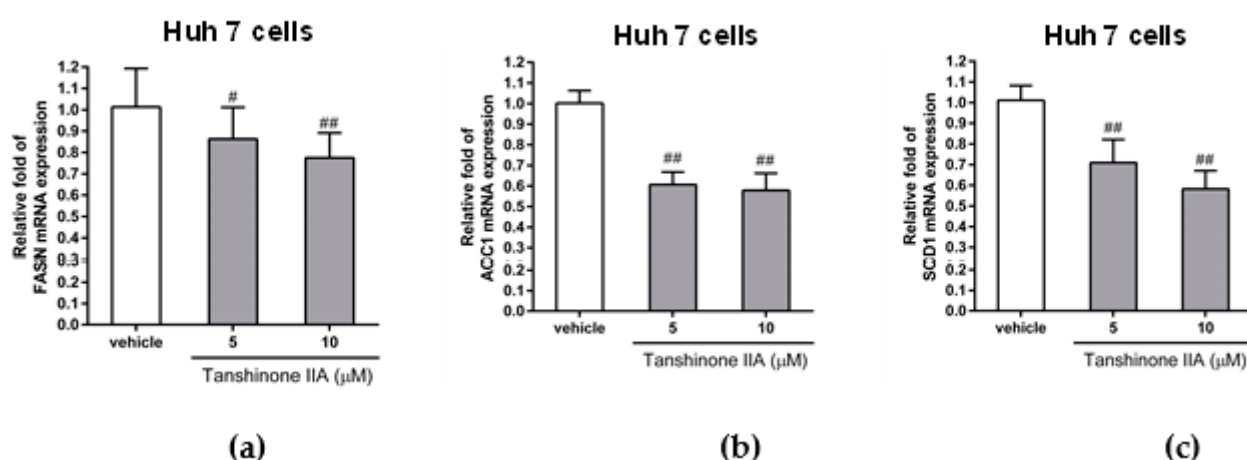
## Supplementary Materials

Table S1. The primer pairs used in RT-qPCR.

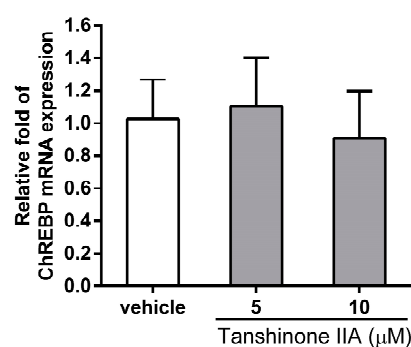
| Genes           | Primers                                                      |
|-----------------|--------------------------------------------------------------|
| <i>FASN</i>     | 5'-CCCCTGATGAAGAAGGATCA-3'<br>5'-ACTCCACAGGTGGGAACAAG-3'     |
| <i>ACC1</i>     | 5'-AGTGAGGATGGCAGCTCTGGA-3'<br>5'-TGAGATGTGGGCAGCATGAAC-3'   |
| <i>SCD1</i>     | 5'-GCAGGACGATATCTCTAGCT-3'<br>5'-GTCTCCAACCTATCTCCTCCATTC-3' |
| <i>SREBP-1c</i> | 5'-GGAGGGGTAGGGCCAACGGCCT-3'<br>5'-CATGTCTTCGAAAGTGCAATCC-3' |
| <i>LXRα</i>     | 5'-GCCGAGTTTGCCTTGCTCA-3'<br>5'-TCCGGAGGCTCACCAGTTTC-3'      |
| <i>ChREBP</i>   | 5'-CAGCTGCGGGATGAGATTGA-3'<br>5'-AAACGCTGGTGTGTGATGGGTA-3'   |
| <i>GLUT1</i>    | 5'-CGGGCCAAGAGTGTGCTAAA-3'<br>5'-TGACGATACCGGAGCCAATG-3'     |
| <i>GAPDH</i>    | 5'-ATGAGAAGTATGACAACAGCCT-3'<br>5'-AGTCCTTCCACGATACCAAAGT-3' |



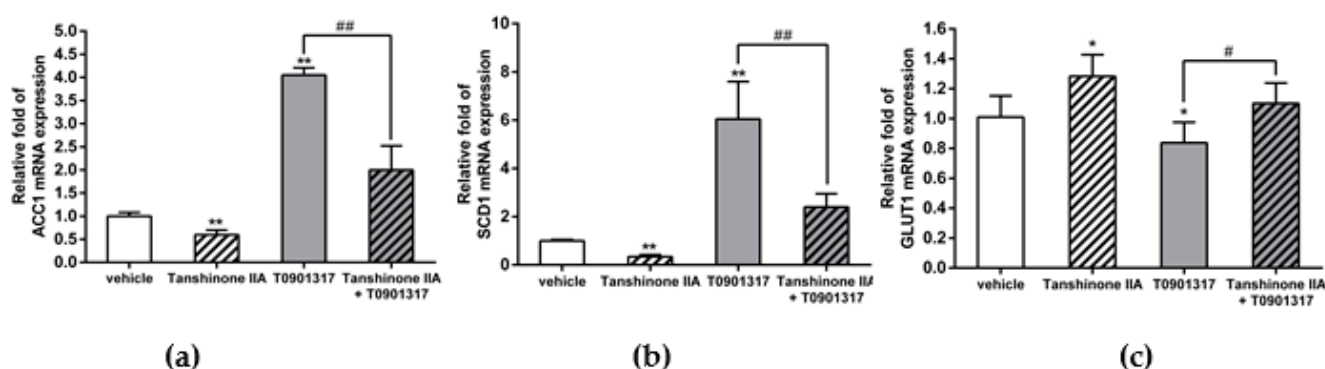
**Figure S1.** Effects of tanshinone IIA on Huh 7 cell viability. Huh 7 cells were treated with vehicle (0.1% DMSO) or tanshinone IIA (1,2,5,10 and 20 μM) for 24 h. Cell viability was measured using an MTT assay. The data represent the mean ± SD of three independent experiments. ## $p < 0.01$  indicates significant differences compared to the vehicle-treated cells.



**Figure S2.** Effects of tanshinone IIA on FASN, ACC1 and SCD1 mRNA expression in Huh 7 cells. Huh 7 cells were treated with vehicle (0.1% DMSO) or tanshinone IIA (5 and 10  $\mu$ M) for 24 h. The mRNA expression of (a) FASN, (b) ACC1, and (c) SCD1 was measured by RT-qPCR analysis. The data represent the mean  $\pm$  SD of three independent experiments. <sup>#</sup> $p$  < 0.05 and <sup>##</sup> $p$  < 0.01 indicate significant differences compared to the vehicle-treated cells.



**Figure S3.** Effects of tanshinone IIA on ChREBP mRNA expression in HepG2 cells. HepG2 cells were treated with vehicle (0.1% DMSO) or tanshinone IIA (5 and 10  $\mu$ M) for 24 h. The mRNA expression of ChREBP was measured by RT-qPCR analysis. The data represent the mean  $\pm$  SD of three independent experiments.



**Figure S4.** Effects of tanshinone IIA on LXR $\alpha$ -mediated transcriptional activity in HepG2 cells. HepG2 cells were pre-treated with vehicle (0.1% DMSO) or tanshinone IIA (10  $\mu$ M) for 1 h followed by treatment with agonist T0901317 (1  $\mu$ M) for 24 h. The mRNA levels of (a) ACC1, (b) SCD1 and (c) GLUT1 were measured by RT-qPCR analysis. <sup>\*</sup> $p$  < 0.05 and <sup>\*\*</sup> $p$  < 0.01 indicate a significant difference compared to vehicle-treated group. <sup>#</sup> $p$  < 0.05 and <sup>##</sup> $p$  < 0.01 indicate significant differences compared to the T0901317 alone-treated cells.