Materials and Methods

MTT assay

Briefly, HepG2 cells were seeded at a density of 5×10^4 cells/ml in 96-well plates. After 24h, cells were treated with puerarin (25, 50, 100, 150, 200 μM) in complete medium. The plates were then incubated at 37℃ for 24 h. 20 μL of MTT solution (5mg/ml) was added to each well and the cells were cultured for another 2h. Then the medium was discarded, and the formazan crystals were dissolved with DMSO. The optical density was read at 490 nm using a microplate reader (TECAN, Männedorf, Switzerland). Cell viability rates were calculated by comparing with the control cells.

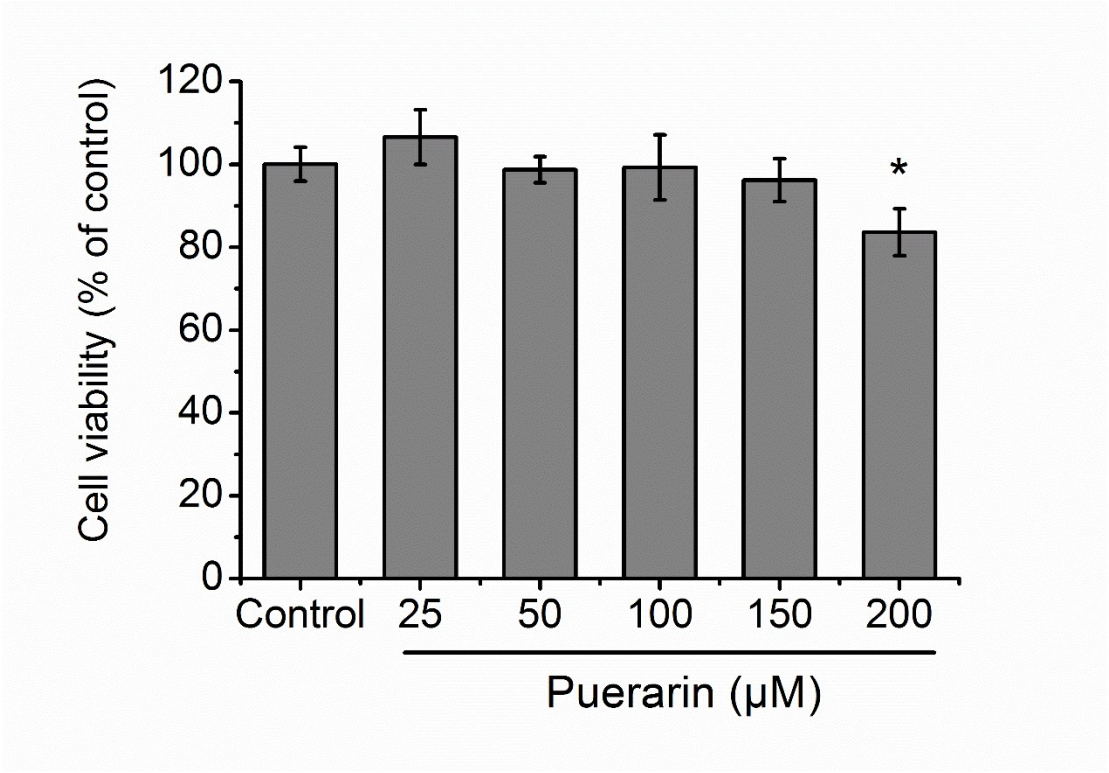
Results

Effect of puerarin on cell viability

As shown in Fig.1S, 25, 50, 100, 150 μM of puerarin were not cytotoxic to the HepG2 cells. However, the cytotoxicity of puerarin was observed to be at a high concentration of 200 μM ($p < 0.05$). Thus, we used 75 and 150 μM of puerarin in the following in vitro study.

Figure Legends

Figure.1S Effect of puerarin on cell viability. HepG2 cells were treated with different concentrations of puerarin, and cell viability was measured using MTT assay. Data are presented as mean ± SEM (n = 6). *$p < 0.05$ vs. control cells.


Cell viability (% of control)
120
100
80
60
40
20
0
*
Control
25
50
100
150
200
Puerarin (μM)