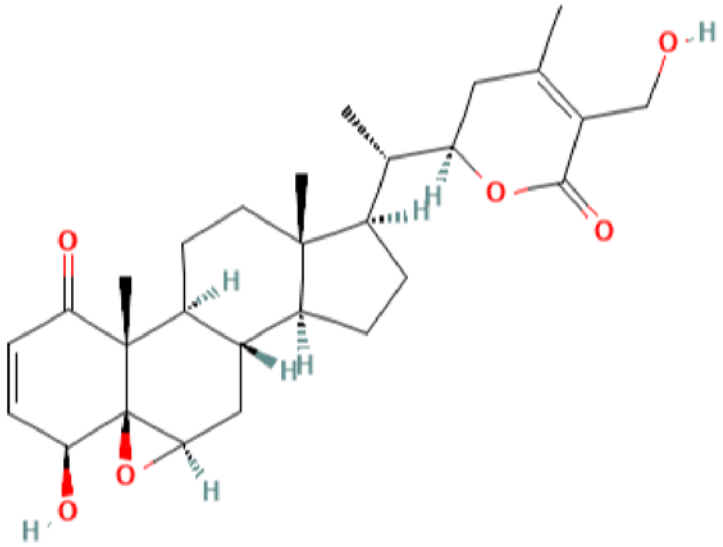
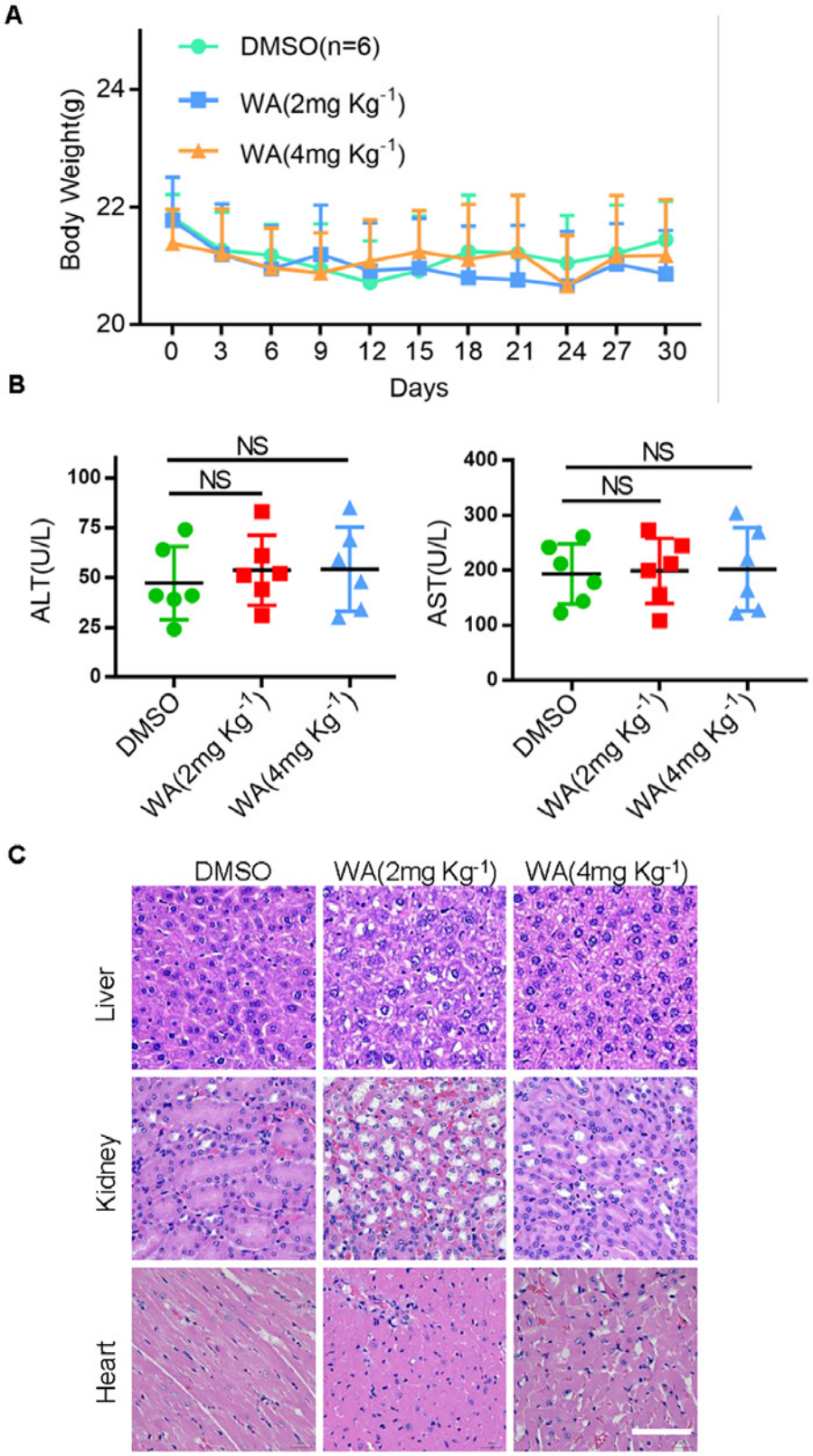
Molecular formula:C28H38O6

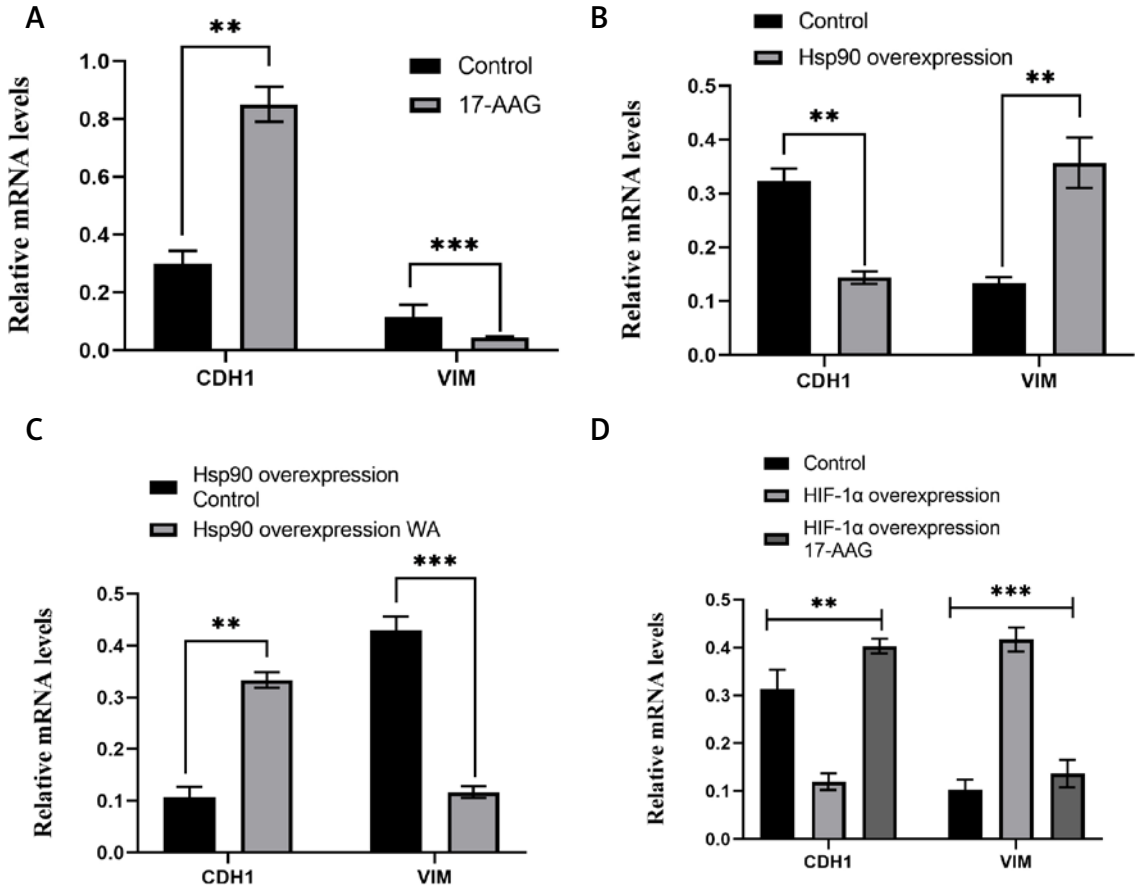
Molecular weight:470.598



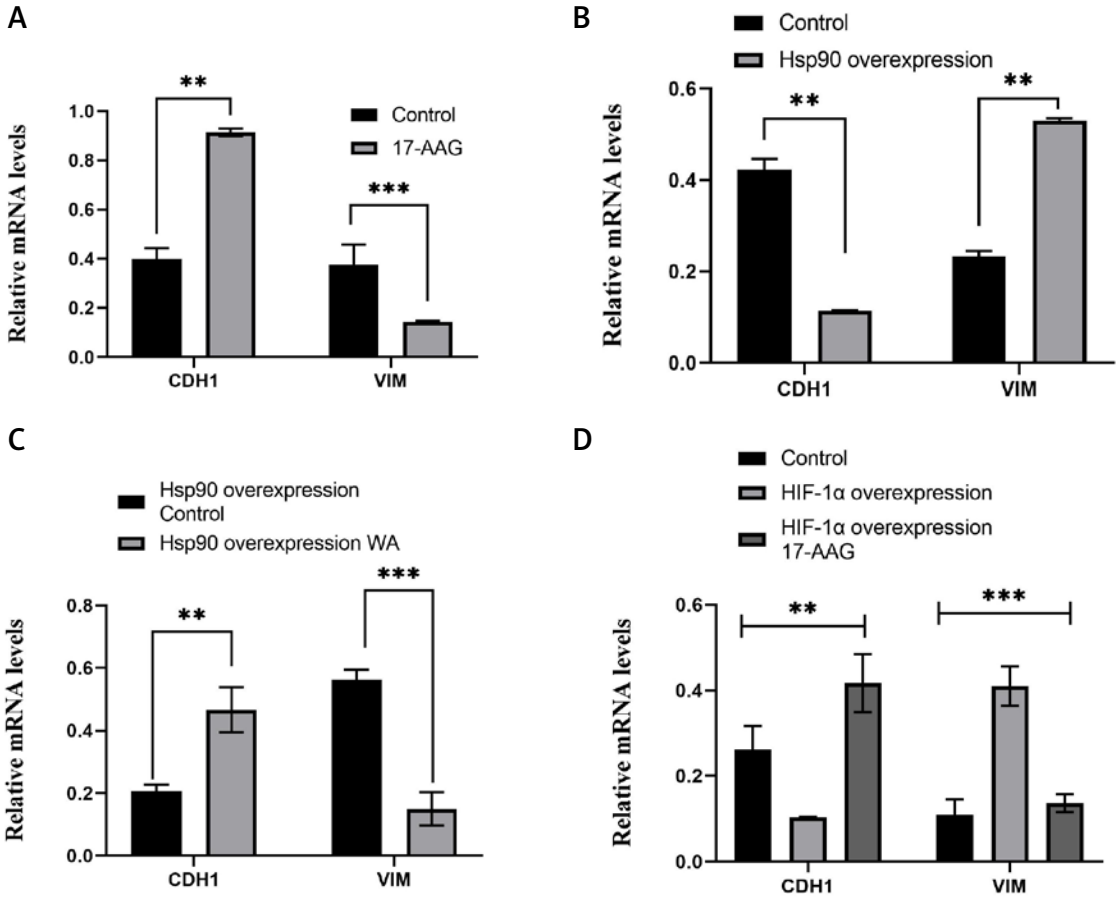
Supplementary Figure S1. Chemical structure of Withaferin-A (WA). The molecular formula of WA is $C_{28}H_{38}O_6$, and the molecular weight is 470.598



Supplementary Figure S2. WA did not cause toxicity. The mice were injected with DMSO, 2.0 mg/kg or 4.0 mg/kg WA intraperitoneally every 3 days and were killed on the 30th day. Serum, liver, heart and kidney samples were collected for analysis. **A** – Mice body mass curve. **B** – Serum AST and ALT levels of mice. **C** – HE staining was performed on the heart, liver and kidney sections. Photographs of the representative organs from mice administered with DMSO, 2.0 mg/kg, 4.0 mg/kg WA are shown. Scale bars, 200 μm. These experiments were performed three times independently



Supplementary Figure S3. WA inhibits HSP90/HIF-1α in CRC cells by EMT. **A** – SW480 cells were treated with the specified concentration of 17-AAG and control for 12 h, and the mRNA expression level of CDH1 and VIM was detected by qPCR. **B** – SW480 control and HSP90 overexpression of mRNA expression level of CDH1 and VIM was detected by qPCR. **C** – SW480 cells were treated with the specified concentration of WA and control for 12 h with HSP90 overexpression, and the mRNA expression level of CDH1 and VIM was detected by qPCR. **D** – SW480 cells were treated with the specified concentration of 17-AAG and control with HIF-1α overexpression for 12 h, and the mRNA expression level of CDH1 and VIM was detected by qPCR



Supplementary Figure S4. WA inhibits HSP90/HIF-1α in CRC cells by EMT. **A** – HCT116 cells were treated with the specified concentration of 17-AAG and control for 12 h, and the mRNA expression level of CDH1 and VIM was detected by qPCR. **B** – HCT116 control and HSP90 overexpression of mRNA expression level of CDH1 and VIM was detected by qPCR. **C** – HCT116 cells were treated with the specified concentration of WA and control for 12 h with HSP90 overexpression, and the mRNA expression level of CDH1 and VIM was detected by qPCR. **D** – HCT116 cells were treated with the specified concentration of 17-AAG and control with HIF-1α overexpression for 12 h, and the mRNA expression level of CDH1 and VIM was detected by qPCR