

Supplement

S1: TMF decreased TM-induced apoptosis ratio of chondrocytes in vitro

To determine the effect of TMF on chondrocytes cell death, 1 μM TM and TMF (5, 10, and 20 $\mu\text{g}/\text{mL}$) were added to the cultured medium for 48 h. Cell apoptosis was analyzed by flow cytometry using the FITC-Annexin V/PI double staining. As showed in Figure S1, TM could promote chondrocytes apoptosis, and TMF exhibited chondroprotective activity. In the model group, the chondrocytes apoptosis rates were $4.38 \pm 0.34\%$ in FITC-Annexin V/PI double staining. In contrast, at the dose of 20 $\mu\text{g}/\text{mL}$ of TMF, they showed almost as moderate as those in the control group.

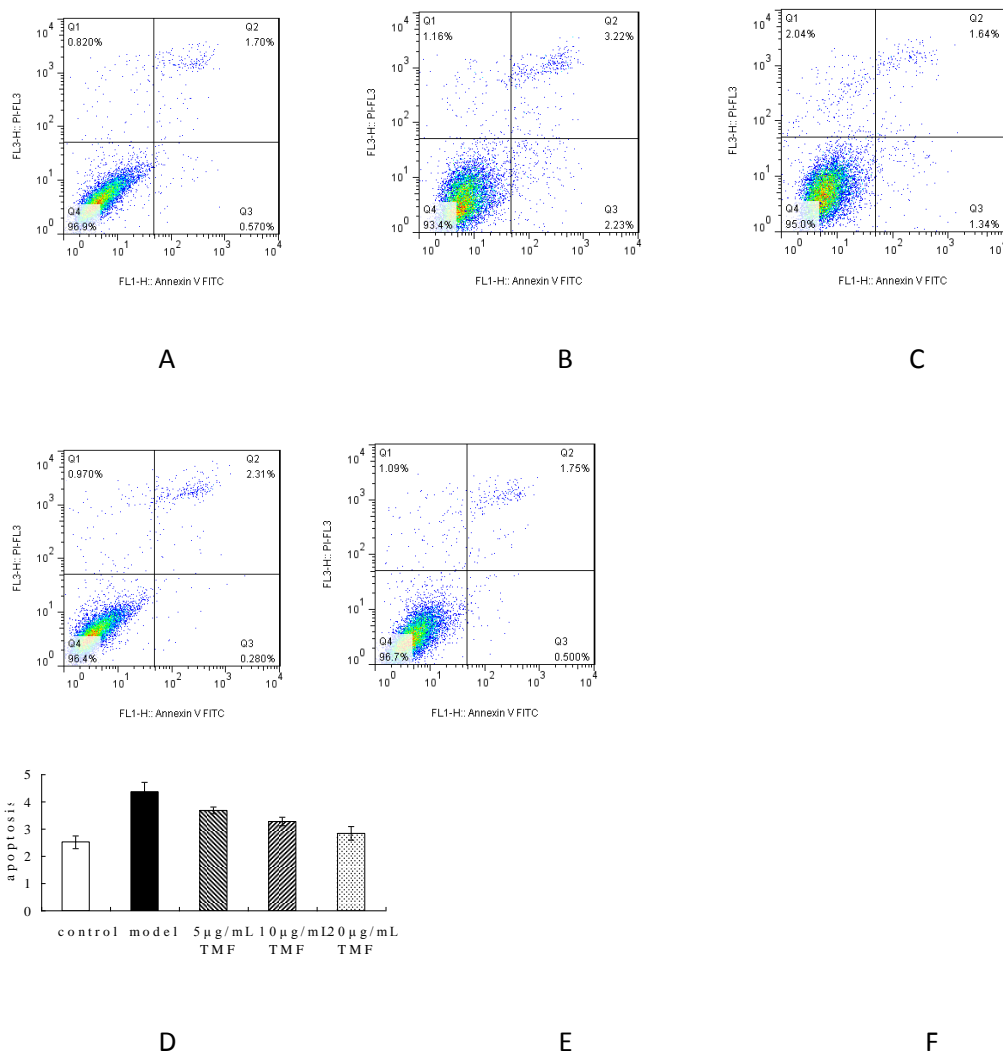


Figure S1. TMF inhibited chondrocytes apoptosis induced by 1 μM TM. The healthy chondrocytes were incubated for 48 h.

Chondrocytes in the control group (A) was incubated without adding any medicines. Model group (B) was the healthy chondrocytes incubated with 1 μM TM. Figure C-E were groups incubated with 1 μM TM and 5, 10, and 20 $\mu\text{g}/\text{mL}$ TMF, respectively. Figure F was the summarized data indicating the rate of apoptosis cells, as detected by flow cytometry. Data were presented by mean \pm standard deviation of 4 replicates. * $p < 0.05$ as compared with control.

