

Supplementary Material

Chrysin Inhibits Proinflammatory Factor-Induced EMT Phenotype and Cancer Stem Cell-Like Features in HeLa Cells by Blocking the NF- κ B/Twist Axis

Weilei Dong^a A Chen^b Xiaocheng Cao^b Xiang Li^b YingHong Cui^b
Chang Xu^b Jianguo Cao^b Yingxia Ning^c

^aDepartment of Obstetrics and Gynecology, The First Affiliated Hospital, University of South China, Hengyang,
^bDepartment of Pharmaceutical Science, Medical College, Hunan Normal University, Changsha, Key Laboratory of
Study and Discover of Small Targeted Molecules of Hunan Province, Changsha, ^cDepartment of Gynecology and
Obstetrics, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China

Supplementary Figure Legends

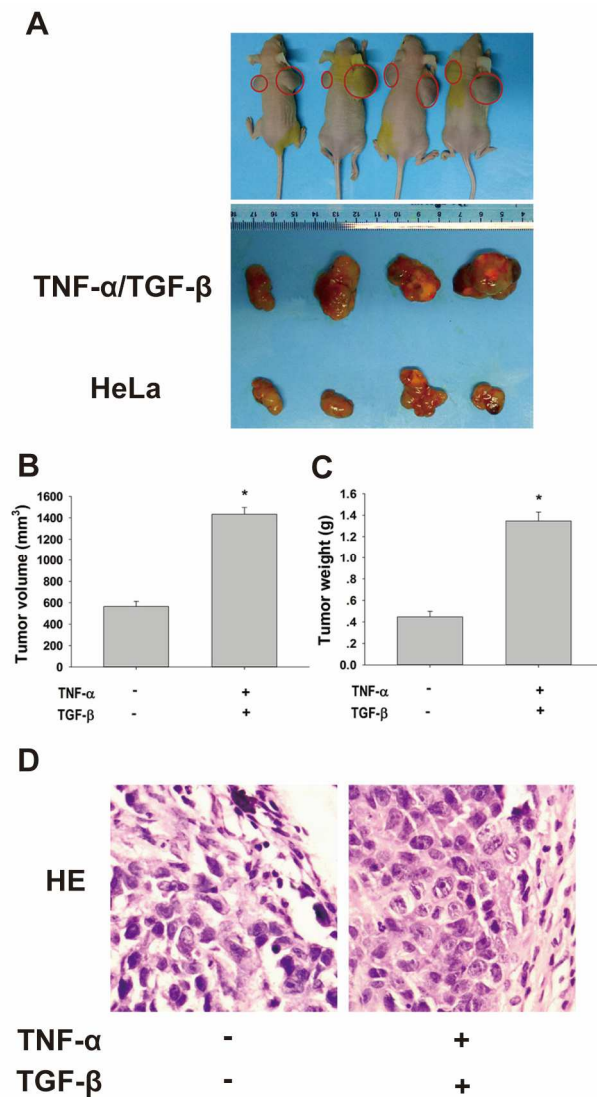


Figure S1 Comparison of xenograft tumor growth in nude mouse models inoculated with TNF- α /TGF- β co-treated and control HeLa cells

A: Tumor-bearing nude mice were photographed. Control HeLa cells were subcutaneously transplanted near the left forelimb, while those co-treated with TNF- α and TGF- β were subcutaneously transplanted near the right forelimb. Subcutaneously transplanted tumors from the nude mice were imaged: upper row, HeLa cells treated with TNF- α combined with TGF- β ; lower row, control HeLa cells.

B: Comparison of xenograft volumes in nude mouse models inoculated with TNF- α /TGF- β co-treated and the control HeLa cells.

C: Comparison of xenograft weights in nude mouse models inoculated with TNF- α /TGF- β co-treated and the control HeLa cells.

D: H&E staining of subcutaneous xenografts from nude mouse models inoculated with TNF- α /TGF- β co-treated and control HeLa cells.

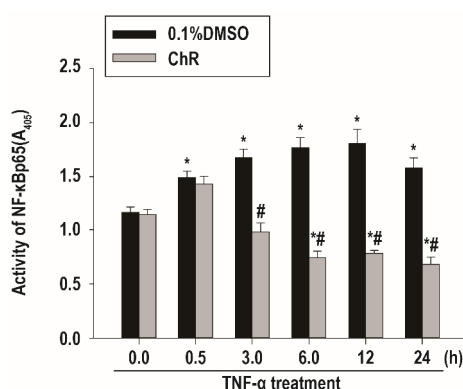


Figure S2 Effects of ChR on the NF- κ B DNA binding activities of HeLa cells co-treated with TNF- α and TGF- β at different time points.

10.0 μ M ChR treatment significantly reduced DNA binding activity of NF- κ Bp65 at 3 h, 6 h, 12 h and 24 h, as compared with the same time points in vector (0.1% DMSO) control. * P <0.05, treatment with 0.1% DMSO or ChR (10.0 μ M) at 0.5h, 3.0 h, 6.0 h, 12.0h and 24 h compared to treatment with 0.1% DMSO or ChR (10.0 μ M) at 0 h co-treated with TNF- α and TGF- β ; # P <0.05, treatment with 0.1% DMSO compared to treatment with ChR (10.0 μ M) co-treated with TNF- α and TGF- β at the same time points.

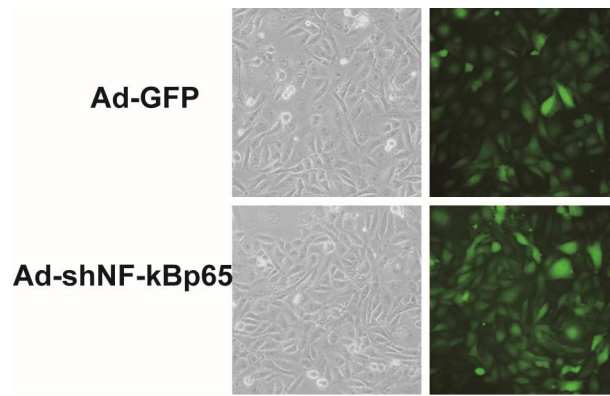


Figure S3 Immunofluorescence of HeLa cells expressing GFP and NF-κBp65 shRNA (magnification: ×20)

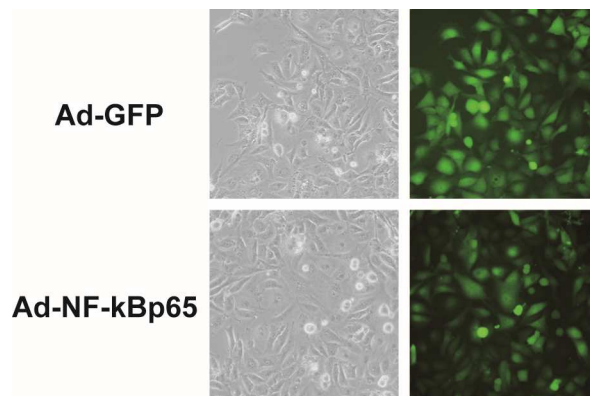


Figure S4 Immunofluorescence of HeLa cells expressing GFP and NF-κBp65 cDNA (magnification: ×20)

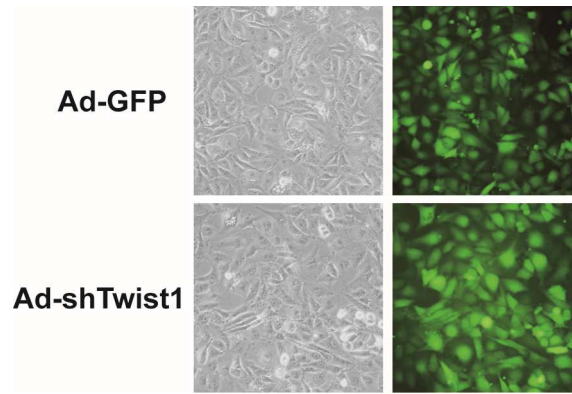


Figure S5 Immunofluorescence of HeLa cells expressing GFP and Twist1 shRNA
(magnification: ×20)

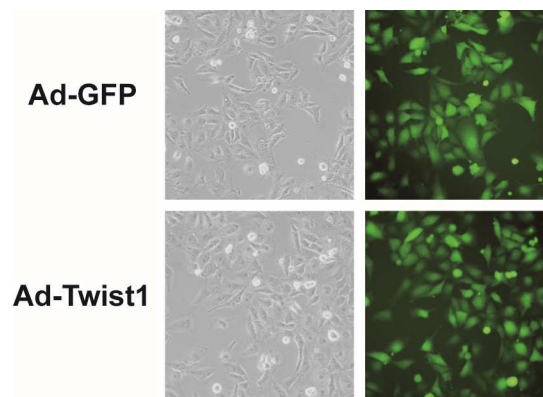


Figure S6 Immunofluorescence of HeLa cells expressing GFP and Twist1 cDNA
(magnification: ×20)