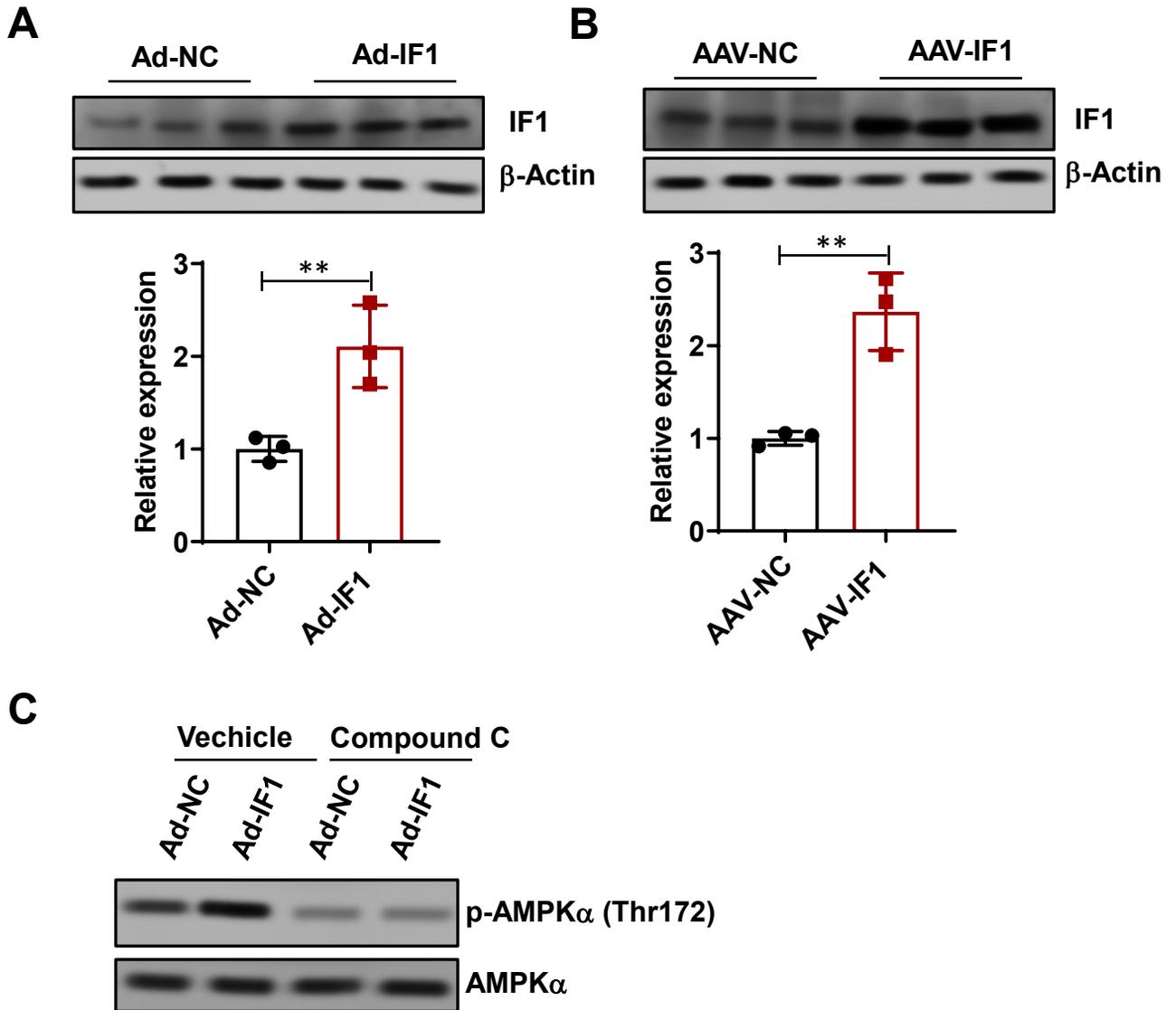
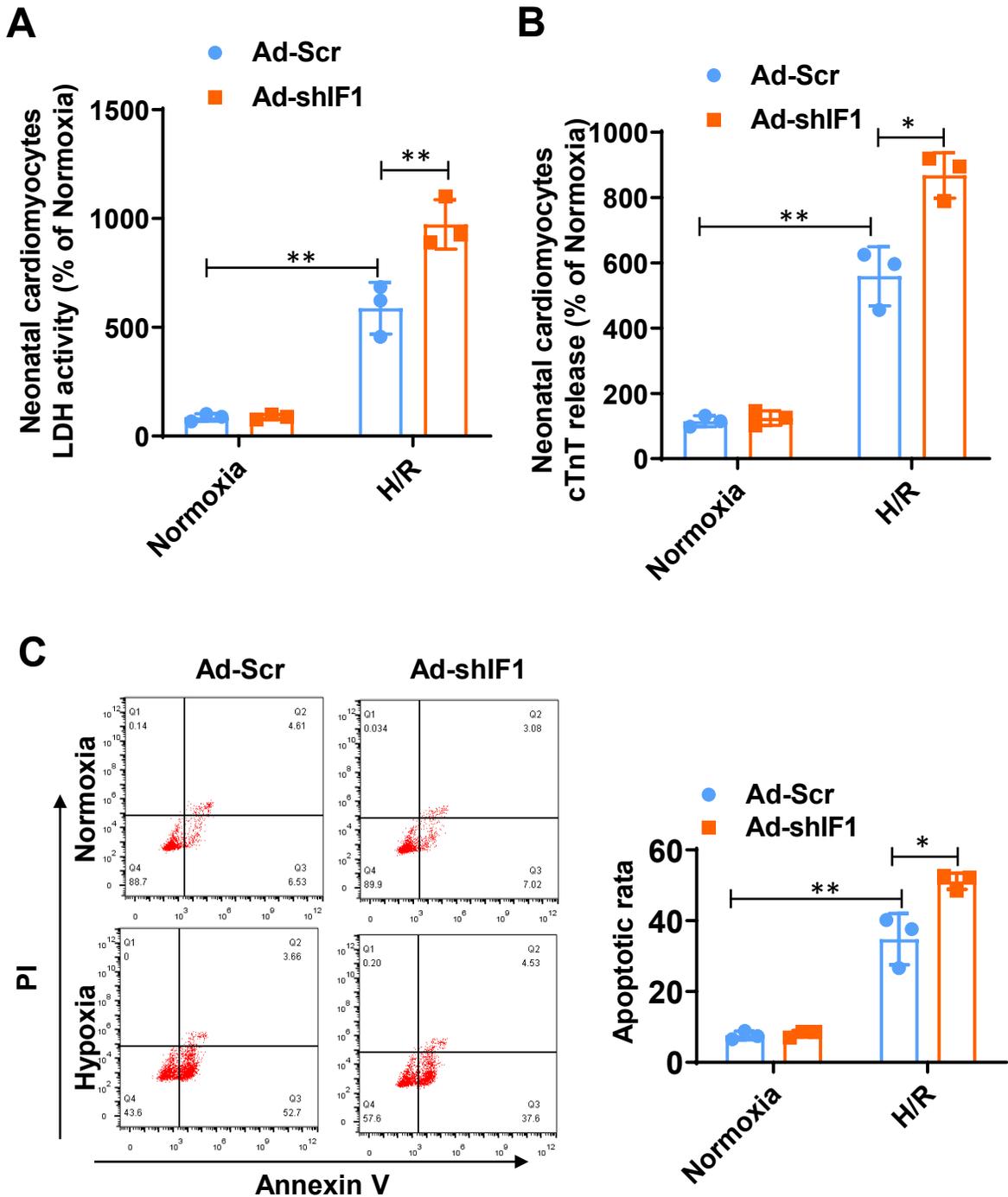


Supplemental Figure 1



Supplemental Fig.1 Western blot analysis for overexpression efficiency of Ad-IF1 (A) and AAV-IF1 in hearts (B), as well the inhibitory effect of compound C on AMPK (C). n = 3 each. **P<0.01.

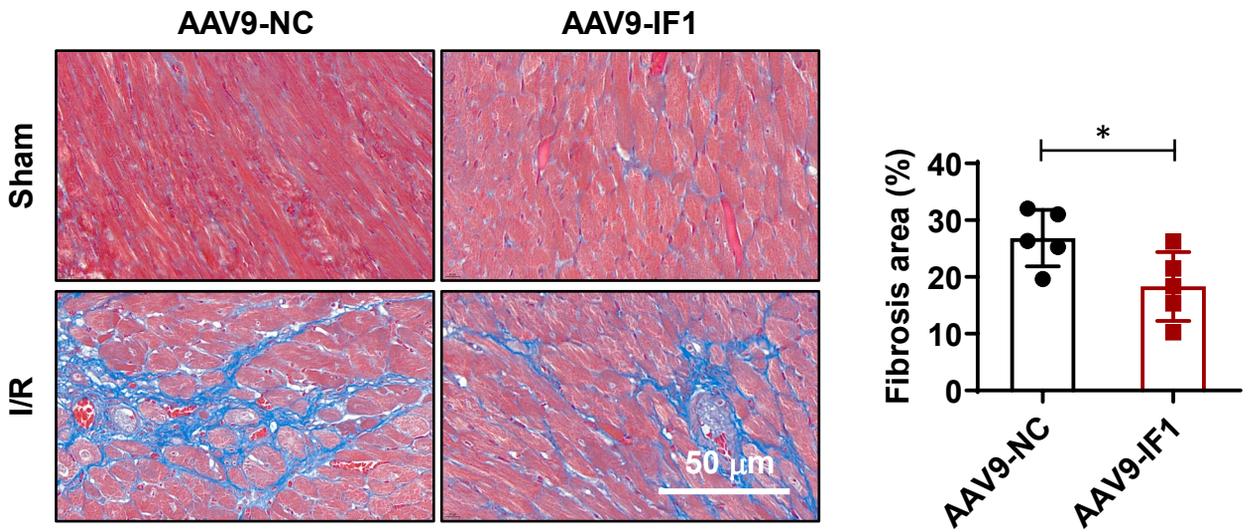
Supplemental Figure 2



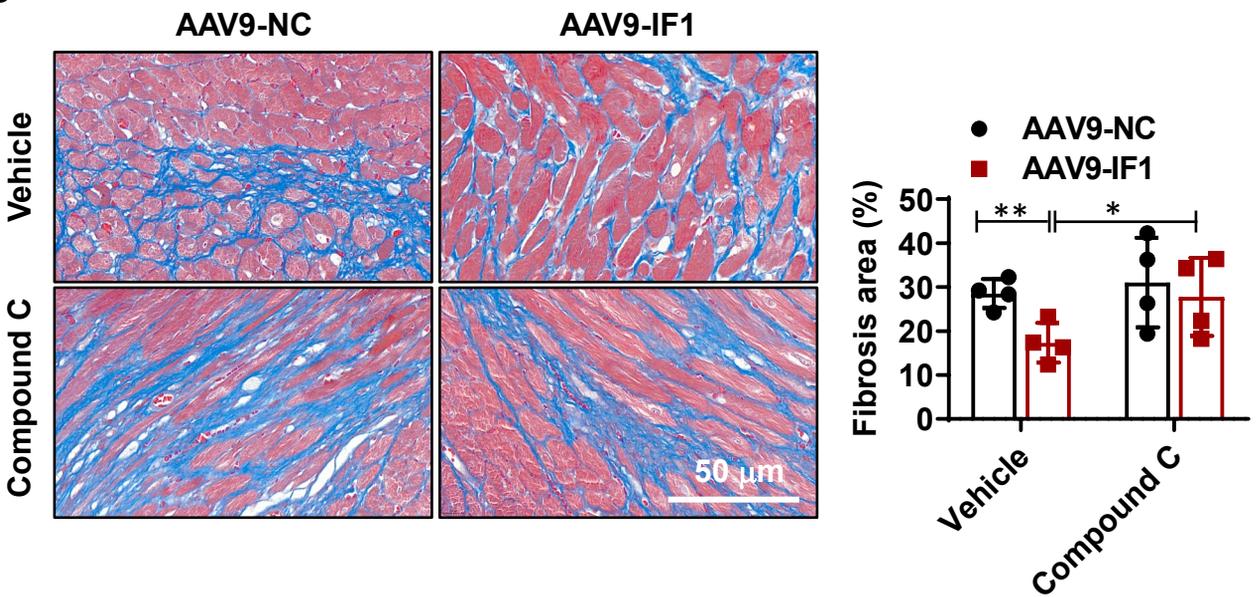
Supplemental Fig.2 IF1 knockdown aggravated H/R-induced cardiomyocytes injury. A, LDH released from NRCMs at the 1 hour of reperfusion. B, cTnT released from NRCMs induced by H/R injury. C, Representative flow cytometric assessment of apoptosis via Annexin V/PI staining. n = 3 each. *P < 0.05, **P < 0.01.

Supplemental Figure 3

A



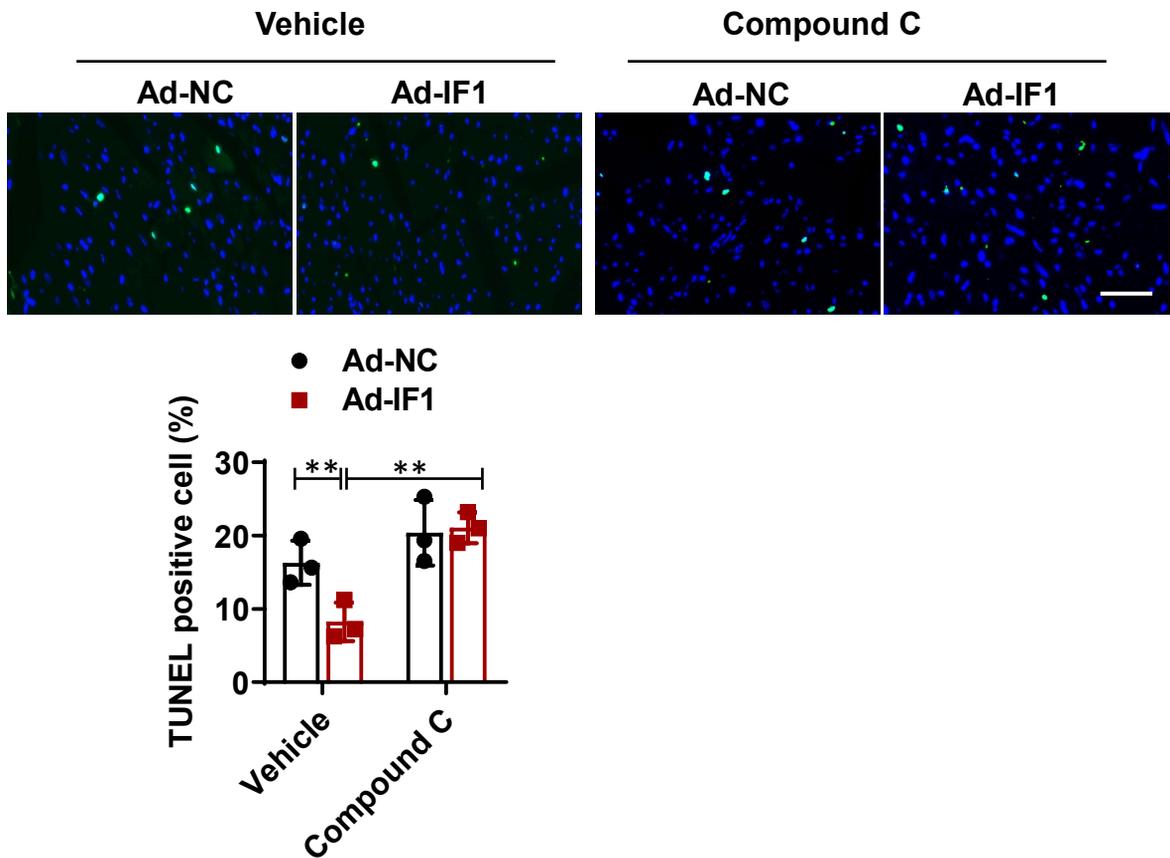
B



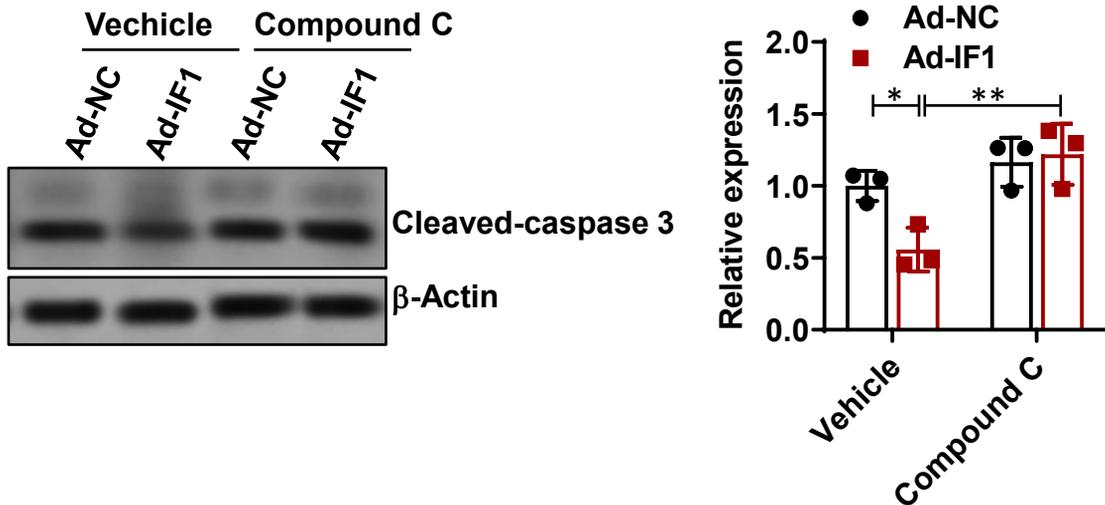
Supplemental Fig.3 Cardiac fibrosis was evaluated via Masson's Trichrome staining. A. Representative images and quantitative data of hearts stained with Masson's trichrome in AAV9-IF1 group compared with the AAV9-NC group. $n = 5$ each. B. Representative images and quantitative data of hearts infected with Masson's trichrome. Scale bar = 50 μm . $n = 4$ each. * $P < 0.05$, ** $P < 0.01$.

Supplemental Figure 4

A



B



Supplemental Fig.4 The effect of IF1 and compound C on cardiomyocyte apoptosis. A. Immunostaining of TUNEL in cardiomyocytes. The results are displayed as representative images (upper, scale bar = 20 μ m) and as a bar chart of TUNEL-positive cells. B. Representative immunoblots of cleaved-caspase 3 and quantitative analysis. n = 3 each. * P <0.05, ** P <0.01.