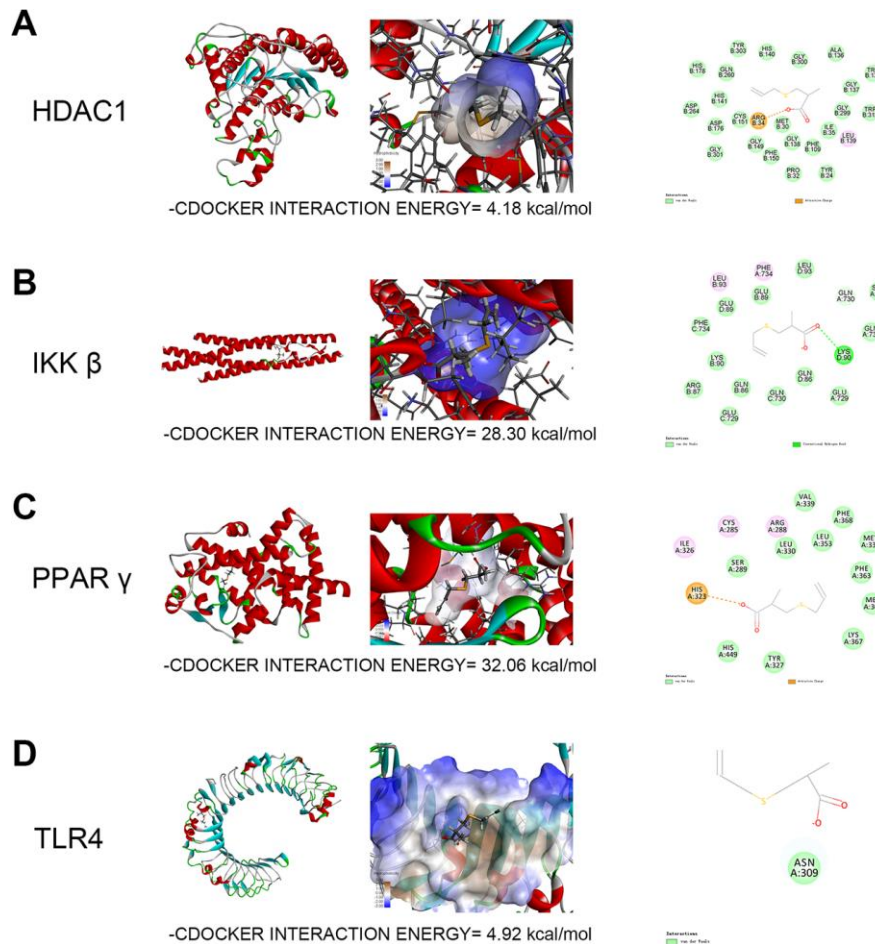
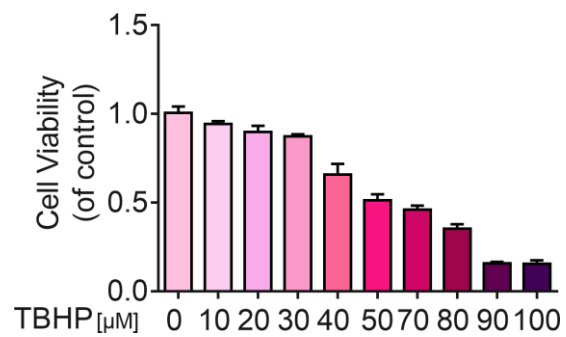


SUPPLEMENTARY FIGURES



Supplementary Figure 1. Molecular docking analysis of SAC and its potential binding partners, HDAC1, IKK β , PPAR γ , and TLR4. (A) The 3D docking model shows -CDOCKER interaction energy value of 4.18 kcal/mol for the interactions between SAC and HDAC1 molecules. The 2D binding model between SAC and HDAC1 demonstrates 23 van der Waals interactions, 1 alkyl interaction, and 1 salt bridge between HDAC1 and SAC molecules. (B) The 3D docking model shows -CDOCKER interaction energy value of 28.3 kcal/mol for the interactions between SAC and IKK β molecules. The 2D binding model between SAC and IKK β demonstrates 14 van der Waals interactions, 2 alkyl interactions, and 1 carbon-hydrogen bond between IKK β and SAC molecules. (C) The 3D docking model shows -CDOCKER interaction energy value of 32.06 kcal/mol for the interactions between SAC and PPAR γ molecules. The 2D binding model between SAC and PPAR γ demonstrates 11 van der Waals interactions, 3 alkyl interactions, and 1 salt bridge between SAC and PPAR γ molecules. (D) The 3D docking model shows -CDOCKER interaction energy value of 4.92 kcal/mol for the interactions between SAC and TLR4 molecules. The 2D binding model between SAC and TLR4 demonstrates 1 van der Waals interaction between SAC and TLR4.



Supplementary Figure 2. CCK8 assay results show the viability of chondrocytes treated with different concentrations of TBHP for 2 h.