

SUPPLEMENTARY MATERIALS

Effects of H₂O₂ on cell viability

Primary neonatal rat cardiomyocytes (NRCMs; Supplementary Figure 1) and H9C2 cells (Supplementary Figure 2) were exposed to various concentrations of H₂O₂ for 4 h (left graphs) or to 40

μmol/L H₂O₂ for different times (right graphs), and subsequently cultured for additional 48 h in normal medium. The viability of cardiomyocytes was evaluated using the CCK8 assay. We established an optimal sub-lethal concentration of 40 μmol/L of H₂O₂, and a treatment duration of 4 h to induce premature senescence in cell cultures.