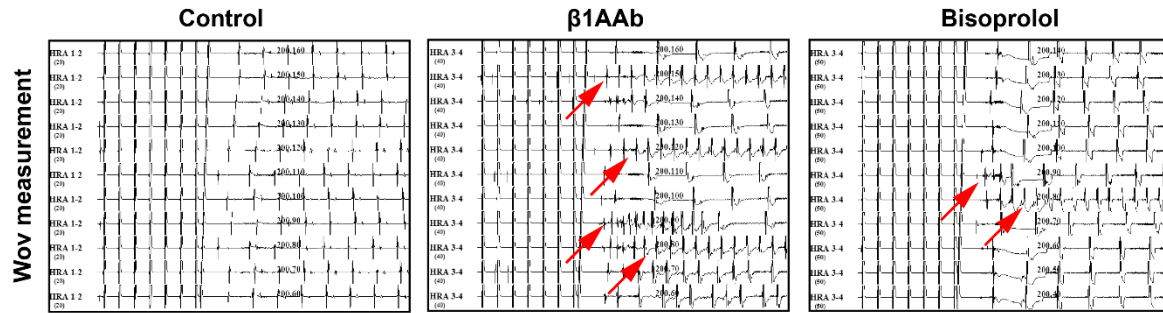


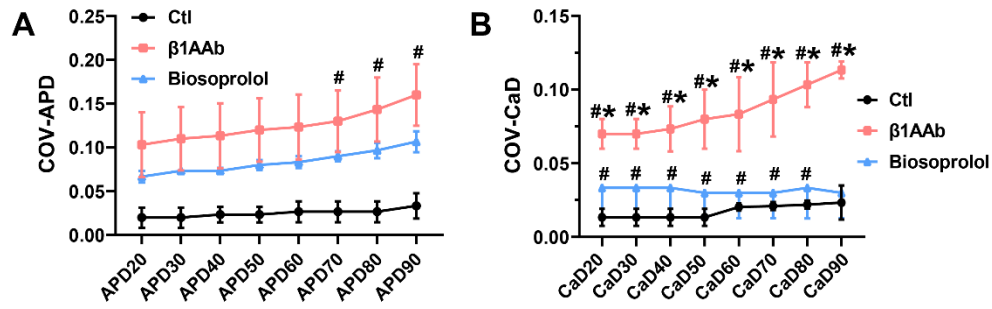
Supplemental figure 1

A-B, CCK-8 assay for exogenous $\beta 1$ -AAs intervention in HL-1 cells and atrial fibroblasts under a series of concentration gradient. *P < 0.05 vs. minimum concentration group, and *P < 0.05 indicates statistical significance.



Supplemental figure 2

Typical endocardial electrophysiological images when measuring WOV with the S1-S2 mode. Red arrows indicate the inducible atrial arrhythmias during WOV measurement process.



Supplemental figure 3

A-B, the coefficient of variation of APD and CaD among three groups under sinus rhythm, (n=3) per group, #P < 0.05 vs. control group; *P < 0.05 vs. bisoprolol group.