



SUPPLEMENTARY FIG. S5. Measurement of mito-roGFP fluorescence and GSH/GSSG ratio. (A) Confocal image showing mito-roGFP fluorescence (488 ex.) of a ventricular myocyte cultured for 24 h. *Inset*, expanded section of cell area indicated by *white box*. (B) Decrease in mito-roGFP fluorescence after 30-min exposure to GGTI-298. (C) Cumulative mito-roGFP fluorescence data at time zero, 1, and 30 min under control conditions ($n=6$) and in the presence of GGTI-298 ($n=6$). The drug reached the cell ~ 1 min after the time zero control measurement was taken. (D) Effect of ESI-05 ($n=9$), GGTI-298 ($n=8$), and H_2O_2 ($25 \mu M$) relative to the control ($n=11$) GSH/GSSG ratio in aliquots of cells measured using the GSH/GSSG-Glo assay system. ** $p < 0.05$, * $p < 0.01$.