Supplementary Tables:

	Δ Fluorescence (arbitrary units)	
Treatment	*TMRE*	*JC-1*
Control	46.2 ± 4.8	2.63 ± 0.34
Bithionol (2.5 μM)	44.8 ± 4.8	3.01 ± 0.04
$CaCl_2$ (25 μM)	46.7 ± 4.9	2.59 ± 0.32
Paxilline (1 μM)	45.6 ± 4.4	2.88 ± 0.07
Bepridil (10 μM)	-	2.98 ± 0.12

Table S1. Mitochondrial membrane potential is not affected by channel modulators. Mitochondria were isolated from WT (C57BL/6) mice and loaded with a fluorescent indicator (TMRE 20 nM or JC-1 0.2 μg/mL) in the presence of either Bithionol (2.5 μM), $CaCl_2$ (25 μM), Paxilline (1 μM) or Bepridil (10 μM). Fluorescent indicators accumulate in mitochondria in relation to membrane potential ($\Delta\psi_m$). Following stabilization, $\Delta\psi_m$ was collapsed via addition of $\Delta\psi_m$ FCCP (10 μM) resulting in a re-distribution of the fluorescent indicator, resulting in a decrease in fluorescence. All data are means ± SEM, N≥3 and are not significantly different (N=independent mitochondria isolation of ≥3 mouse hearts).