Supplemental Figure 1. Effects of GSK3368715 and TP-064 on \( I_{Ks} \) activity in HEK 293T cells. (a) and (d) Representative current traces before (black) and after treatment with 10 \( \mu \)M GSK3368715 (red; a) or 1 \( \mu \)M TP-064 (blue; b) from cells expressing human KCNQ1 and human KCNE1 channels. Cells were held at -80 mV, subjected to 3 s voltage steps ranging from -110 mV to +110 mV in 20 mV increments followed by a 1.5 s tail pulse at -40 mV (inset). (b) and (e) Tail current density-voltage relationship of \( I_{Ks} \) measured before (black) and after exposure to GSK3368715 (red; b) or TP-064 (blue; e). (c) Voltage activation curves were obtained by plotting normalized tail currents versus the prepulse potential before (black) and after treatment with GSK3368715 (red; c) or TP-064 (blue; f). Values for the midpoint of activation (\( V_{1/2} \)) were obtained by fitting with the Boltzmann equation (lines) as described in the Methods. NS indicates not significantly different. ** \( P < 0.01 \) (paired Student’s t-test). All data are mean ± SEM.