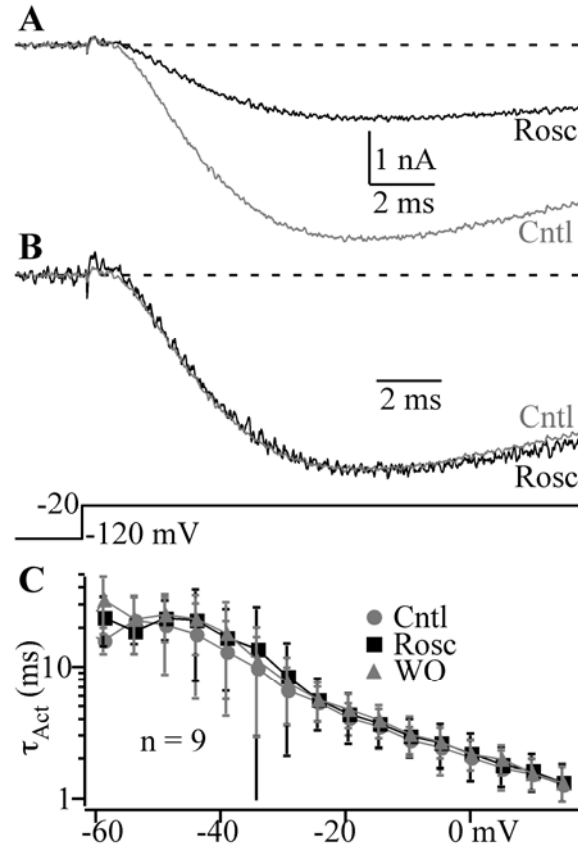


Roscovitine inhibits CaV3.1 (T-type) channels by preferentially affecting close-state inactivation.

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Supplemental Figure 1 – Roscovitine fails to affect CaV3.1 activation kinetics. **A**, CaV3.1 currents activated by a step to -20 mV are shown in control (Cntl, gray trace) and 45 μ M roscovitine (Rosc, black trace). **B**, The traces in panel A were normalized to peak to highlight the absence of an effect of roscovitine on activation kinetics. **C**, CaV3.1 current activation was fit using a single exponential equation to determine the activation

τ (τ_{Act}). The fit was constrained to the activating portion of the current that was 0.3 ms following the onset of the voltage step to the peak. Data are mean \pm SD from control (gray circle), 45 μ M roscovitine (black square) and washout (gray triangle). There were no significant differences between roscovitine and control (average of Cntl and WO data).