

Supplemental material

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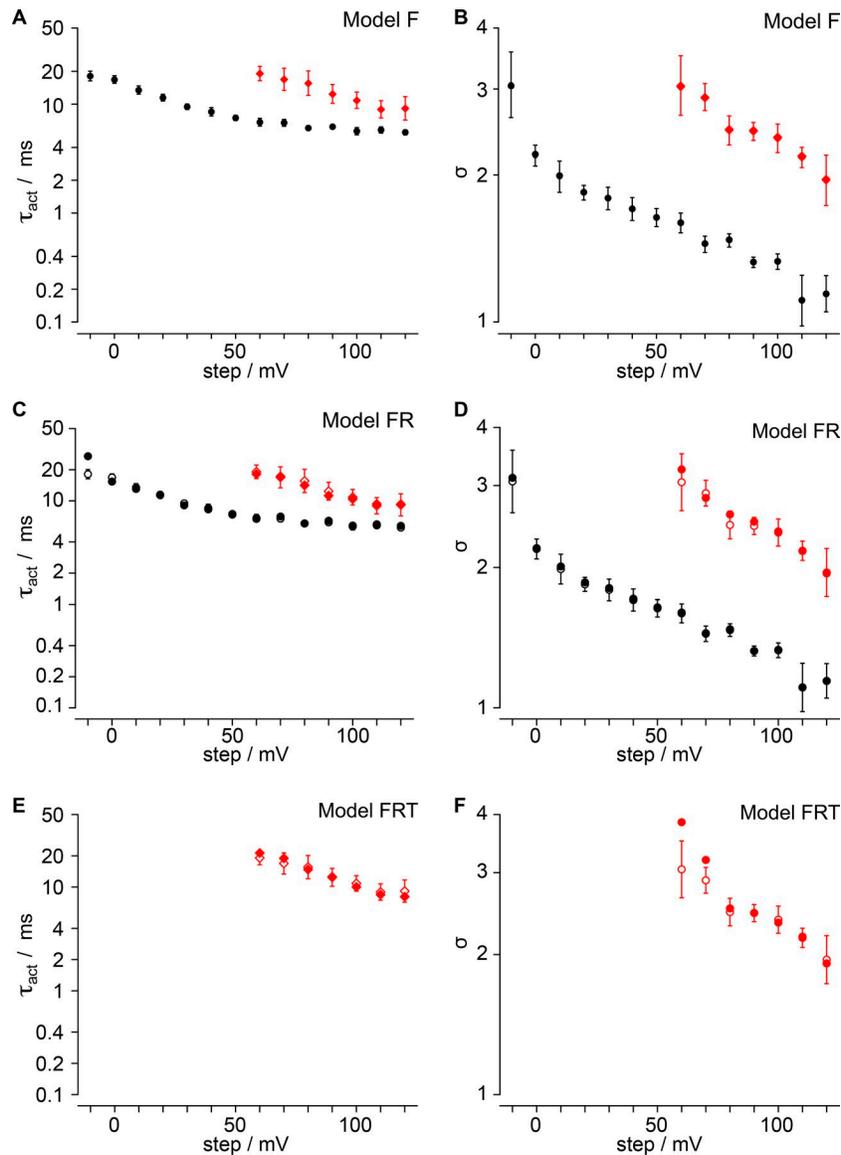


Figure S1. **Comparisons of kinetic models to fitted data parameters.** (A) Comparison of the values of τ_{act} from fits of Model F simulations to τ_{act} from Kv2.1 experiments in Fig. 2 C. Hollow circles or diamonds, mean Kv2.1 $\tau_{act} \pm \text{SEM}$; filled circles, τ_{act} from Model F fits; black, control; red, 1 μM GxTx. (B) Comparison of the values of σ from fits of Model F simulations to σ from Kv2.1 experiments in Fig. 3 B. Hollow circles or diamonds, mean Kv2.1 $\sigma \pm \text{SEM}$; filled circles, σ from Model F fits; black, vehicle; red, 1 μM GxTx. (C) Comparison of the values of τ_{act} from fits of Model FR simulations to τ_{act} from Kv2.1 experiments in Fig. 2 C. Hollow circles or diamonds, mean Kv2.1 $\tau_{act} \pm \text{SEM}$; filled circles, τ_{act} from Model FR fits; black, control; red, 1 μM GxTx. (D) Comparison of the values of σ from fits of Eq. 3 to simulated open probability of Model FR to σ from Fig. 3 B. Hollow circles, mean Kv2.1 $\sigma \pm \text{SEM}$; filled circles, σ from model fits; black, vehicle; red, 1 μM GxTx. (E) Comparison of the values of τ_{act} from fits of Model FRT simulations to τ_{act} from Kv2.1 experiments in Fig. 2 C. Hollow diamonds, mean 1 μM GxTx Kv2.1 $\tau_{act} \pm \text{SEM}$; filled diamonds, τ_{act} from model fits. (F) Comparison of the values of σ from fits of Model FRT simulations to σ from Kv2.1 experiments in Fig. 3 B. Hollow circles, mean 1 μM GxTx Kv2.1 $\sigma \pm \text{SEM}$; filled circles, σ from model fits.