

Influence of the TARP $\gamma 8$ -selective negative allosteric modulator JNJ-55511118 on AMPA receptor gating and channel conductance

Ian D. Coombs, Craig A. Sexton, Stuart G. Cull-Candy, Mark Farrant

Molecular Pharmacology MOLPHARM-AR-2021-000473

Fig S2. JNJ-118 effects on deactivation and rectification of GluA2(Q)/ $\gamma 2$ and GluA2(Q)/ $\gamma 2$.DM.

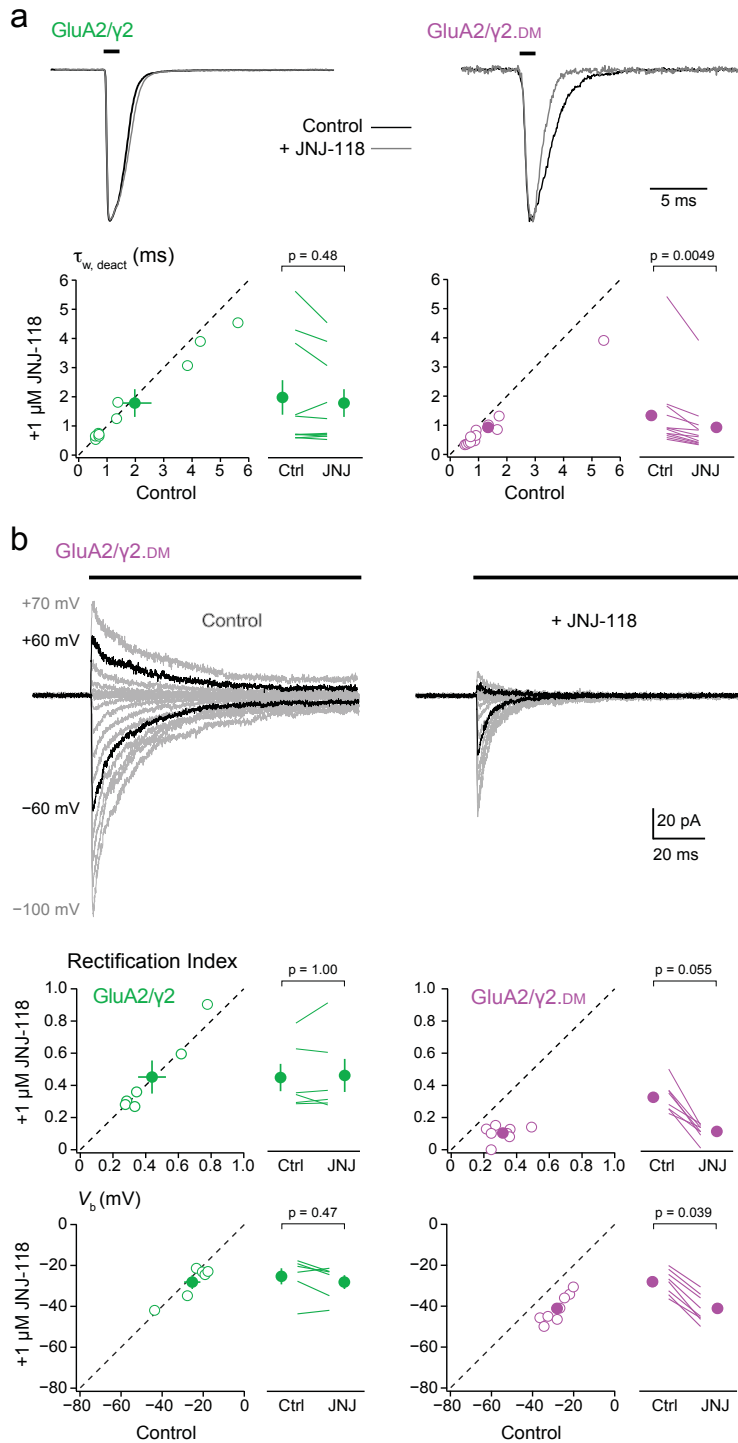


Figure S2. JNJ-118 effects on deactivation and rectification of GluA2(Q)/γ2 and GluA2(Q)/γ2.DM

a) Representative outside-out patch responses (10 mM glutamate, 1 ms) (black bars) recorded at -60 mV from HEK293 cells transfected with GluA2/γ2 (left) or GluA2/γ2.DM (right) in control conditions (black) or in the presence of 1μ M JNJ-118 (grey). Lower panels are scatter and paired plots showing the effects of JNJ-118 on the weighted mean time constant of deactivation ($\tau_{w, deact}$). Indicated p-values (adjusted for multiple comparisons as described in **Table 1**) are from two-sided Wilcoxon signed rank exact tests following a non-parametric

omnibus test (**Table S1**). **b**) Representative responses evoked by 10 mM glutamate (200 ms; black bars) (as in **Fig 2**) showing the effects of 1 μ M JNJ-118 on Rectification Index and V_b (from individual double Boltzmann fitted conductance-voltage relationships) for GluA2/ γ 2 and GluA2/ γ 2.DM. Indicated p-values (adjusted as described in **Table 1**) are from two-sided Wilcoxon signed rank exact tests following a non-parametric omnibus test (**Table S1**).