

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

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Table S1. Omnibus tests for actions of JNJ-118 on GluA2 co-expressed with wild- type or mutated forms of γ 8 and γ 2.

Measure	Test	Condition	Statistic	df	p-value	Figure
I_{118}/I_{Ctrl} (%)	nparLD	Main effect of TARP	33.41	2.67	<0.0001	1b and 6b
		Main effect of drug	59.98	1.00	<0.0001	
		Interaction TARP:drug	11.48	2.73	<0.0001	
$\tau_{w, deact}$ (ms)	nparLD	Main effect of TARP	8.23	3.52	<0.0001	S1b and S2a
		Main effect of drug	26.52	1.00	<0.0001	
		Interaction TARP:drug	10.24	3.10	<0.0001	
$\tau_{w, des}$ (ms)	nparLD	Main effect of TARP	24.26	3.44	<0.0001	6c and S1a
		Main effect of drug	94.82	1.00	<0.0001	
		Interaction TARP:drug	33.96	3.07	<0.0001	
I_{ss}/I_{peak} (%)	nparLD	Main effect of TARP	17.49	3.02	<0.0001	6c and S1a
		Main effect of drug	21.01	1.00	<0.0001	
		Interaction TARP:drug	6.96	3.33	<0.0001	
γ (pS)	nparLD	Main effect of TARP	8.43	3.72	<0.0001	2b and 6c
		Main effect of drug	16.59	1.00	<0.0001	
		Interaction TARP:drug	10.89	3.24	<0.0001	
P_{open}	nparLD	Main effect of TARP	11.50	3.38	<0.0001	2b and 6c
		Main effect of drug	23.67	1.00	<0.0001	
		Interaction TARP:drug	4.77	2.86	0.0029	
RI (I_{+60}/I_{-60})	nparLD	Main effect of TARP	22.11	3.28	<0.0001	4c and S2b
		Main effect of drug	40.26	1.00	<0.0001	
		Interaction TARP:drug	15.07	3.09	<0.0001	
V_b (mV)	nparLD	Main effect of TARP	33.41	2.67	<0.0001	4c and S2b
		Main effect of drug	59.98	1.00	<0.0001	
		Interaction TARP:drug	11.48	2.72	<0.0001	
$JNJ-118_{int}$ inhib. (%)	K-W		11.96	2.00	0.0025	5d
I_{KA}/I_{Glu}	nparLD	Main effect of TARP	33.54	1.49	<0.0001	7b
		Main effect of drug	59.25	1.00	<0.0001	
		Interaction TARP:drug	11.36	1.82	<0.0001	
$\tau_{w, rec}$ (ms)	nparLD	Main effect of TARP	36.89	3.80	<0.0001	7d
		Main effect of drug	8.94	1.00	0.028	
		Interaction TARP:drug	3.31	3.21	0.017	

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Omnibus tests performed prior to the pairwise statistical analyses presented in **Table 1** and illustrated in the indicated figures. nparLD, non-parametric, robust rank-based method for longitudinal (repeated measures) data analysis (Noguchi et al., 2012). K-W, non-parametric Kruskal-Wallis rank sum test.