

S5 Table. Statistical analysis for data in Table-4.

	Di-heteromeric NMDA Receptors	Tri-heteromeric NMDA Receptors				
	GluN2A vs GluN2A-P552R	ANOVA		Post hoc Tukey's P-value		
	unpaired t-test p value	F statistic	P value	N2A/N2A vs N2A-P552R/N2A	N2A/N2A vs N2A-P552R/N2A-P552R	N2A/N2A-P552R vs N2A-P552R/N2A-P552R
Glutamate, EC₅₀	< 0.0001	F (2,77) = 136.9	<0.0001	<0.0001	<0.0001	<0.0001
Glycine, EC₅₀	< 0.0001	F (2,71) = 331	<0.0001	<0.0001	<0.0001	<0.0001
Amplitude (peak, pA/pF)	0.9289	F (2,22) = 0.011	0.9891	---	---	---
Amplitude (SS, pA/pF)*	---	---	---	0.6242	---	---
I_{SS}/I_{PEAK}%*	---	---	---	0.1478	---	---
Rise time (ms)	< 0.0001	F (2,23) = 1662	<0.0001	0.9958	<0.0001	<0.0001
t_{FAST} (ms)	< 0.0001	F (2,23) = 110.7	<0.0001	0.4742	<0.0001	<0.0001
t_{SLOW} (ms)	---	F (2,14) = 20.7	<0.0001	0.7029	0.0001	0.0002
%t_{FAST}	0.0547	F (2,23) = 11.12	0.0004	0.001	0.9869	0.0014
t_w(ms)	< 0.0001	F (2,23) = 152.7	<0.0001	0.0672	<0.0001	<0.0001
Charge transfer pA ms/pF	0.00061	F (2,20) = 3.707	0.0427	0.5520	<0.05	0.1938
Mean Open Time (ms)	---	F (2,28) = 39.18	<0.0001	0.9996	<0.0001	<0.0001
Current Amplitude (pA)	---	F(2,28) = 32.01	<0.0001	0.4623	<0.0001	<0.0001
Open t1 (ms)	---	F (2,28) = 3.816	0.0342	0.9861	0.1011	0.0424
Open t2 (ms)	---	F (2,28) = 33.33	<0.0001	0.9999	<0.0001	<0.0001
Open Area 1 (%)	---	F (2,28) = 11.21	0.0003	0.9915	0.0016	0.0007
Open probability	0.2184	---	---	---	---	---

*unpaired t-test