

Table 1. Outliers detected and excluded in the amplitude of uIPSCs.

Figure 1C			Figure 3	Figure 4	Figure 5		Figure 6	
2N	5N	2N3D			5N+Veh	5N+WIN	2N3DL+Veh	2N3DL+AM251
511.3	1093.7	593.2	None	None	None	1153.4	None	706.6
513.4		536.1						507.7
								586.2
								497.4
								736.7

Table 2. Membrane properties and spike features of PV-INs and Pyr-cells in 2N3D mice.

	Veh	WIN	Stat-value	
V_spike peak (mV)	17.3 ± 2.2	16.2 ± 1.8	$t_{(20)} = 0.3674$	$p = 0.7172$
V_trough (mV)	-62.7 ± 1.9	-66.8 ± 1.0	$U = 39$	$p = 0.2093$
V_threshold (mV)	-51.0 ± 2.0	-53.1 ± 0.9	$t_{(20)} = 0.8392$	$p = 0.4113$
Spike height (mV)	80.1 ± 1.8	83.0 ± 2.1	$t_{(20)} = 1.053$	$p = 0.3049$
Spike width (ms)	0.44 ± 0.03	0.45 ± 0.03	$U = 57.5$	$p = 0.9576$
Upstroke (mV/ms)	347.7 ± 25.7	370.9 ± 30.6	$t_{(20)} = 0.5801$	$p = 0.5683$
Downstroke (mV/ms)	-226.4 ± 17.5	-220.5 ± 22.0	$t_{(20)} = 0.2132$	$p = 0.8333$
Up/downstroke ratio	-1.59 ± 0.11	-1.72 ± 0.07	$t_{(20)} = 0.9076$	$p = 0.3749$
RMP (mV)	-68.4 ± 1.0	-69.6 ± 1.1	$t_{(20)} = 0.7618$	$p = 0.4551$
Rin (MΩ)	81.5 ± 8.3	70.5 ± 10.3	$t_{(14)} = 0.8165$	$p = 0.4279$
Rin_Pyr (MΩ)	360.7 ± 45.4	341.4 ± 26.6	$U = 221$	$p = 0.8193$

Two-tailed unpaired t test or M-W test reported with t or U , respectively, was used for statistical analyses. Data were presented as mean ± SEM.

Table 3. Membrane properties and spike features of PV-INs and Pyr-cells in 5N mice.

	Veh	WIN	Stat-value	
V_spike peak (mV)	13.9 ± 1.9	13.3 ± 2.1	$t_{(23)} = 0.1993$	$p = 0.8438$
V_trough (mV)	-67.1 ± 0.5	-63.5 ± 0.6	$t_{(23)} = 4.395$	$p = 0.0002$
V_threshold (mV)	-52.7 ± 1.0	-46.3 ± 2.3	$t_{(23)} = 2.272$	$p = 0.0328$
Spike height (mV)	80.0 ± 2.0	76.8 ± 2.1	$t_{(23)} = 1.461$	$p = 0.1575$
Spike width (ms)	0.38 ± 0.03	0.50 ± 0.06	$U = 43$	$p = 0.0566$
Upstroke (mV/ms)	378.6 ± 27.6	324.2 ± 24.1	$t_{(23)} = 1.485$	$p = 0.1511$
Downstroke (mV/ms)	-248.8 ± 17.7	-189.9 ± 18.9	$t_{(23)} = 2.224$	$p = 0.0362$
Up/downstroke ratio	-1.52 ± 0.04	-1.77 ± 0.08	$U = 31$	$p = 0.0108$
RMP (mV)	-70.0 ± 0.8	-67.8 ± 0.8	$U = 48.5$	$p = 0.1177$
Rin (MΩ)	53.1 ± 3.3	66.1 ± 4.2	$t_{(23)} = 2.353$	$p = 0.0275$
Rin_Pyr (MΩ)	272.5 ± 24.8	313.2 ± 33.6	$t_{(48)} = 0.9724$	$p = 0.3357$

Two-tailed unpaired t test or M-W test reported with t or U , respectively, was used for statistical analyses. Data were presented as mean ± SEM. Bold p value indicates statistical significance. Data were presented as mean ± SEM.

Table 4. Membrane properties and spike features of PV-INs and Pyr-cells in 2N3D+L mice.

	Veh	AM251	Stat-value	
V_spike peak (mV)	17.0 ± 1.9	15.1 ± 2.1	<i>U</i> = 80	<i>p</i> = 0.4274
V_trough (mV)	-65.7 ± 1.0	-64.5 ± 0.8	<i>U</i> = 74	<i>p</i> = 0.2852
V_threshold (mV)	-48.8 ± 1.0	-47.9 ± 2.0	<i>U</i> = 96	<i>p</i> = 0.9459
Spike height (mV)	81.8 ± 1.8	79.7 ± 2.0	<i>U</i> = 92	<i>p</i> = 0.5907
Spike width (ms)	0.44 ± 0.02	0.55 ± 0.09	<i>U</i> = 104	<i>p</i> = 0.9732
Upstroke (mV/ms)	366.9 ± 17.2	366.0 ± 26.3	<i>t</i> ₍₂₇₎ = 0.0302	<i>p</i> = 0.9761
Downstroke (mV/ms)	-211.9 ± 13.7	-205.6 ± 20.2	<i>t</i> ₍₂₃₎ = 0.2629	<i>p</i> = 0.7946
Up/downstroke ratio	-1.78 ± 0.08	-1.92 ± 0.14	<i>U</i> = 97	<i>p</i> = 0.7472
RMP (mV)	-69.1 ± 0.6	-68.3 ± 0.8	<i>t</i> ₍₂₆₎ = 0.7766	<i>p</i> = 0.4444
Rin (MΩ)	68.3 ± 6.2	77.7 ± 6.8	<i>U</i> = 73	<i>p</i> = 0.1718
Rin_Pyr (MΩ)	352.3 ± 38.4	355.7 ± 52.7	<i>U</i> = 271	<i>p</i> = 0.4350

Two-tailed unpaired t test or M-W test reported with *t* or *U*, respectively, was used for statistical analyses. Data were presented as mean ± SEM.