

Supplementary Table 1

Desensitization time constants and extent for GABA_A currents (28 sec)

Free	A1	τ_1	A2	τ_2	A3	τ_3	A4	τ_4	S/P	Cm	N
ha1 β 2 γ 2s (wt)	16.7 ±4.5	23.6±4.4	16.9±4.7	299 ± 49.7	34.9 ±7.8	2081±322	20.1±5.9	10341±934	14.19±3.5	33.4	14
ha1 β 2 γ 2s (het)	21.5±4.9	19.9±5.5	20.2±5.3	273.5±56.3	29.4±6.9	1899±291	16.5±4.1	9278 ±479	10.81±0.5	34.5	17
ha1 β 2 γ 2s(hom)	27.9±8.5	18.3±6.3	19.2±4.2	269.5±47.1	28.8±8.1	1912±304	15.4±4.5	8939 ±532	11.43±0.6	32.0	15
Forced											
r β 2- α 1/ γ 2L(wt)	19.2±5.7	25.2±2.5	17.1±6.3	278.7±55.6	37.3±7.7	2112±361	18.6±6.2	11578±776	15.43±1.2	29.5	9
r β 2- α 1/ γ 2L(het)	24.4±5.3	22.1±6.1	19.4±5.5	264.4±47.5	32.9±7.2	1997±317	12.2±5.3	10983±906	11.87±1.5	27.7	13
r β 2 α 1/ γ 2L(hom)	25.1±7.1	19.9±5.2	17.8±3.9	261.9±63.2	34.9±9.9	1683±294	11.4±4.9	9876 ± 994	12.91±1.2	27.4	16

Data in this table are expressed as mean ± SEM. The relative contributions (A1, A2, A3 and A4) are in % and desensitization time constants (τ_1 , τ_2 , τ_3 and τ_4) are in msec. S/P is the percent of steady state current/peak. Cm is the cell membrane capacitance (pF). With free assembly (Free) and forced assembly (Forced) experimental groups, all statistical comparisons were made between wt and het, wt and hom, and het and hom groups. Statistical significance was taken as $p < 0.05$. None of these comparisons were statistically significant. The statistical comparisons were made in GraphPad Prism by using unpaired Student's t tests.