

Supplementary Table 1.

Region	SIC Rise time (ms)	SIC Decay time (ms)	SIC Amplitude (pA)	N
CA3	59.4 ± 25.2	400.5 ± 86.3	-143.9 ± 67.5	15
CA1	49.1 ± 9.2	367.9 ± 95.2	-78.8 ± 14.1	30
Cortex	83.5 ± 21.8	617.6 ± 143.6	-86.7 ± 14.9	24
Cortex + CNQX (25 µM)	47.6 ± 6.9	268.5 ± 56.8	-91.8 ± 27.1	23

Supplementary table 1 legend: Among different brain regions SICs share similar kinetic properties. Mean rise, decay time and amplitude for SICs recorded in different brain regions in 0 extracellular Mg^{2+} , picrotoxin 50-100 µM, TTX 1 µM after 20 minutes of epileptiform activity induced by slice perfusion with 0 extracellular Mg^{2+} and picrotoxin. In the CA3 region, two of the seven cells with SICs activity displayed SICs of unusual high amplitude (-943.1 ± 342.7 pA, N = 15) and where thus excluded from the calculation of the mean.