**Supplementary Table 2.EPSP kinetics**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Human (n=27) | Young mouse (n=35) | Adult mouse (n=11) | p (Human vs Young mouse) | p (Human vs Adult mouse) | p (Young vs Adult mouse) |
| 9th / 1st EPSP | 0,94$\pm $0,03 | 0,67$\pm $0,03 | 0,72$\pm $0,06 | p<0.001 | p<0.01 | n.s. |
| 8th / 1st EPSP | 0,38$\pm $0,03 | 0,44$\pm $0,05 | 0,30$\pm $0,04 | n.s. | n.s. | n.s. |
| Max Amplitude (mV) | 1,3$\pm $0,2 | 1,5$\pm $0,2 | 1,9$\pm $0,4 | n.s. | n.s. | n.s. |
| Rise time (ms) | 1,7$\pm $0,3 | 1,4$\pm $0,1 | 1,9$\pm $0,1 | n.s. | n.s. | n.s. |
| Decay time (ms) | 32$\pm $2 | 34$\pm $2 | 59$\pm $7 | n.s. | p<0.001 | p<0.001 |
| Decay time const. (ms) | 41$\pm $7 | 90$\pm $22 | 62$\pm $16 | n.s. | n.s. | n.s. |