**S2a. Values taken from literature**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Meaning** | **Source** | **Value** |
|  | Leak conductance | Fernandos and White, J. Neuro. (2010) | 10 nS |
|  | Excitatory reversal | Calculated (**Methods**) | 0 mV |
|  | Inhibitory reversal | Calculated (**Methods**) | -70 mV |
|  | Leak reversal | Fernandos and White, J. Neuro. (2010) | -65 mV |
|  | Membrane capacitance | neuroelectro.org | 100 pF |

**S2b. Values extracted by fitting data**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Meaning** | **Range (units)** |
|  | Time | 0-100 ms |
|  | Excitatory max conductance | 0 - 5 nS |
|  | Excitatory Rise | 7 ms |
|  | Excitatory Fall | 16 ms |
|  | Excitatory onset time | 0 ms |
|  | I/E ratio | 0 - 5 |
|  | Inhibitory max conductance | x |
|  | Inhibitory Rise | 13 ms |
|  | Inhibitory Fall | 27 ms |
|  | Inhibitory onset time | 2-15 ms |