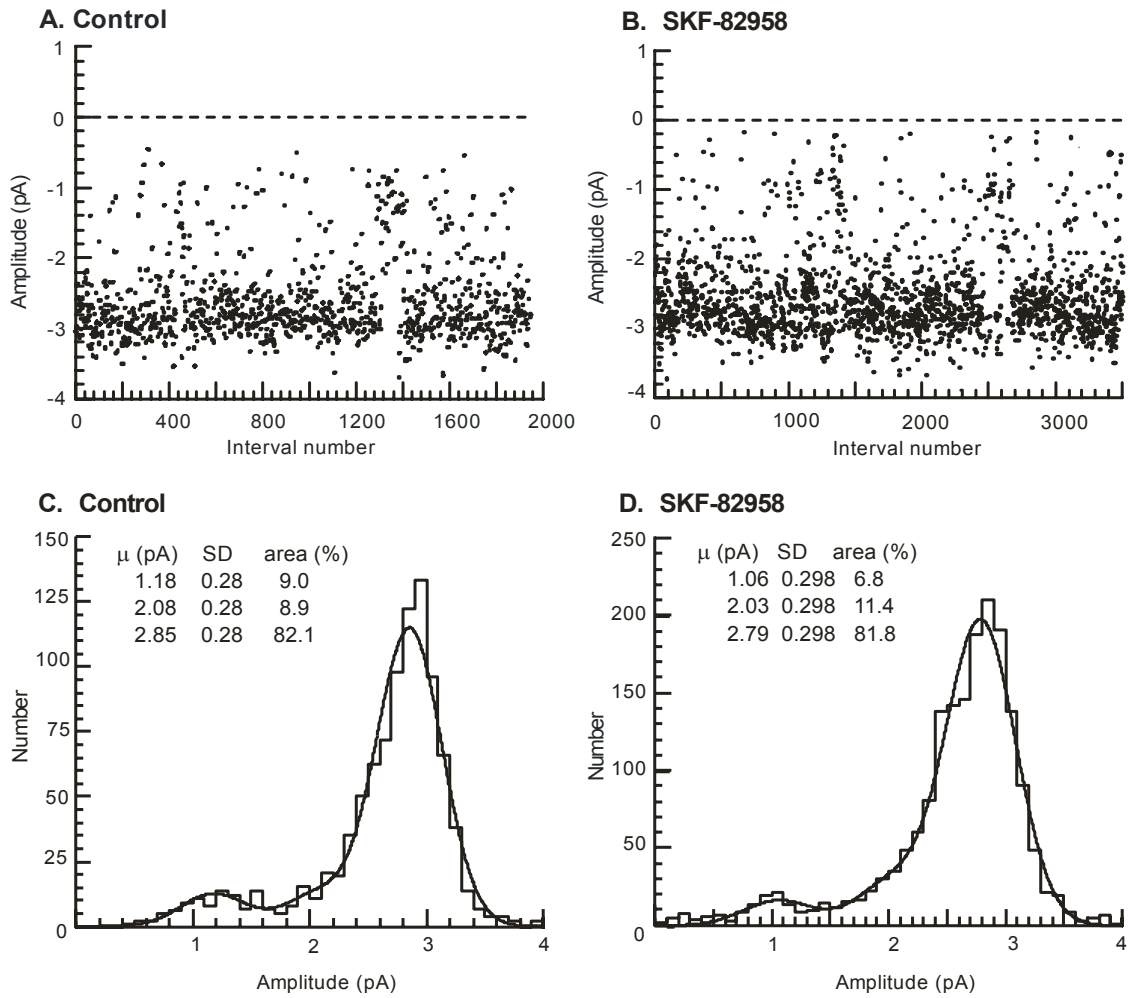


Supplemental figure 1S. Lack of effect of 20nM SKF-82958 on NMDA channel open and closed times.

Distributions of open times ranging from 0.15 to 100 ms (A) and 0.12 to 100 ms (B) were fitted with a mixture of three exponential components (time constants and associated areas are inset). Predicted mean open times were 3.69 ms for control (A) and 3.45 ms in SKF-82958 (B). From all patches the average mean open time was 2.74 ± 0.39 ms in control and 3.36 ± 0.50 ms in the presence of 20nM SKF-82958 ($n = 21$, $p > 0.05$). Neither the time constants nor relative areas of these exponential components were significantly affected by SKF-82958. The mean values of the time constants (and relative areas) were for control; 0.155 ± 0.035 ms ($39.3 \pm 4.14\%$), 1.53 ± 0.22 ms ($29.3 \pm 3.59\%$), 7.90 ± 0.837 ms ($28.7 \pm 4.05\%$) and for SKF-82958; 0.223 ± 0.061 ms ($41.3 \pm 4.8\%$), 2.30 ± 0.35 ms ($32.5 \pm 3.8\%$), 9.57 ± 1.14 ms ($26.3 \pm 3.5\%$).

Distributions of channel closed times ranging from 0.15 to 10,000 ms were fitted with a mixture of five exponential components. As with channel open times, channel shut times was not significantly affected by SKF-82958 (20 nM). The mean values of the distribution exponential time constants (and relative areas) were for control; 0.167 ± 0.032 ms ($21.7 \pm 3.68\%$), 1.26 ± 0.172 ms ($15.1 \pm 1.82\%$), 14.3 ± 3.58 ms ($15.3 \pm 2.06\%$), 143.5 ± 34.3 ms ($21.3 \pm 3.11\%$), 523.2 ± 68.2 ms ($27.3 \pm 5.44\%$) and in SKF-82958; 0.125 ± 0.050 ms ($23.0 \pm 3.86\%$), 2.94 ± 0.778 ms ($19.3 \pm 1.51\%$), 22.7 ± 5.65 ms ($18.8 \pm 4.55\%$), 201 ± 62.6 ms ($21.6 \pm 3.04\%$), 963 ± 367 ($22.0 \pm 4.19\%$). The mean shut times averaged from the five exponential components were 167 ± 37 ms for control and 160 ± 46 ms in the presence of SKF-82958. Although the mean value for channel shut times was not significantly different in SKF-82958 ($p = 0.85$), the time constants of the second and third exponential component were significantly longer in SKF-82958.



Supplemental figure 2S. NMDA receptor single channel current amplitudes are not affected by SKF-82958. *A* and *B*, stability plots of individual channel amplitude measurements at a holding potential of -60 mV from the same patch in control (*A*) and in the presence of SKF-82958 (*B*). *C* and *D*, distributions of channel amplitude measurements from the same patch as illustrated in *A* and *B*, in control, *C* and in the presence of SKF-82958, *D* fitted with the sum of three Gaussian components illustrating the absence of effect of SKF-82958 on the mean current (\square) of each component or its relative area.