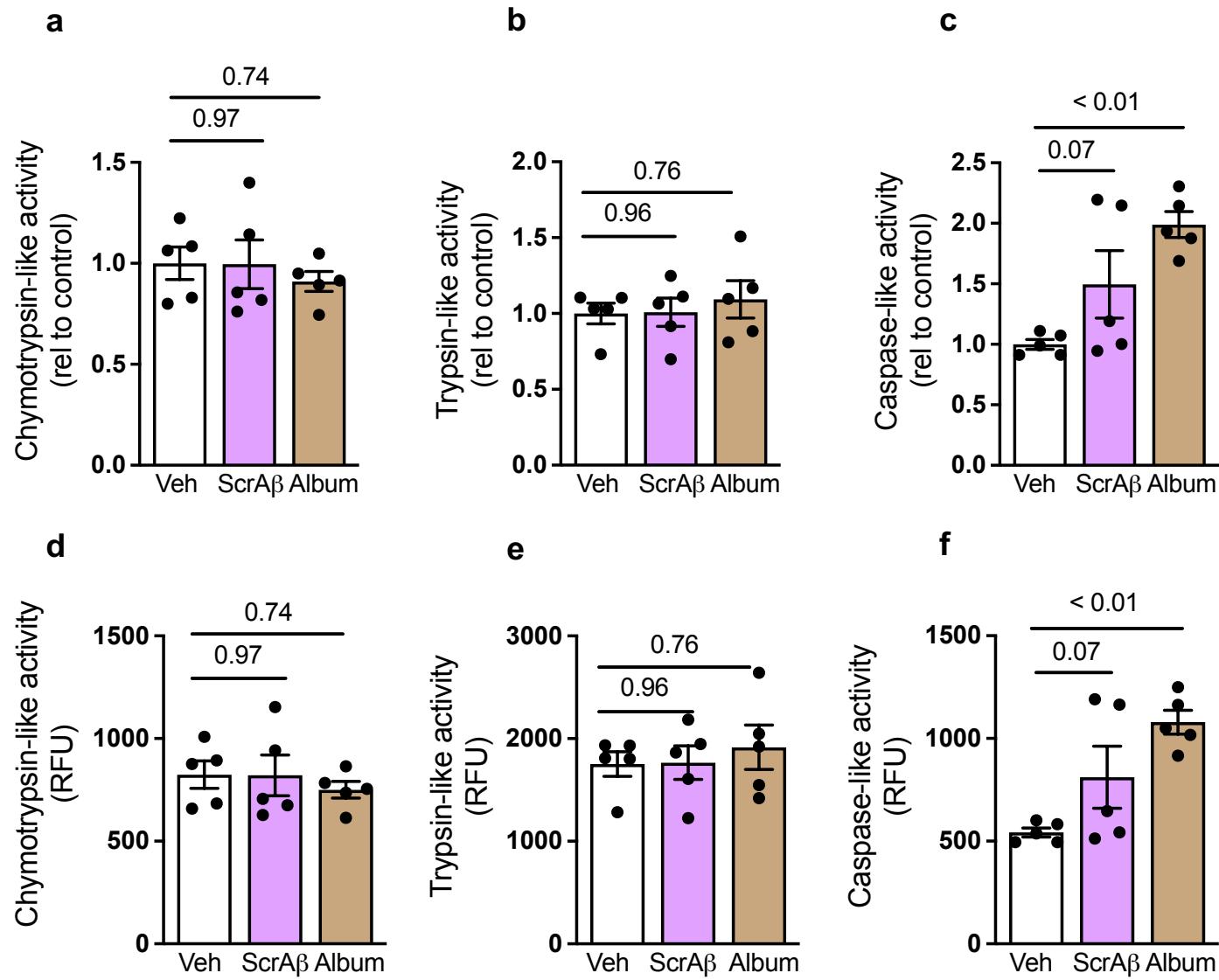


Supplementary Figure 1. Relative fluorescence units related to main figures in the manuscript . (A-L) Data expressed as relative fluorescence units for Panels 2A-C (A-C), 3A-C (D-F), 3I-K (G-I), 4A-C (J-L).



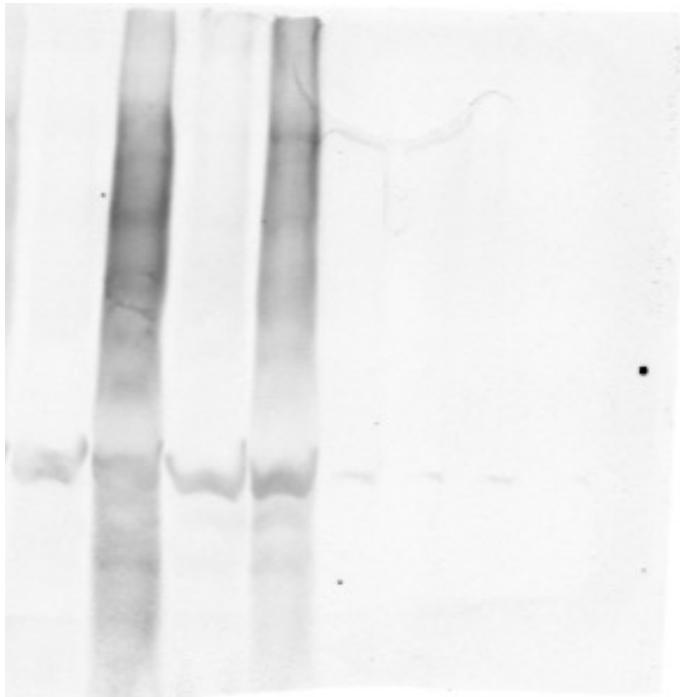
Supplementary Figure 2. Scrambled A β peptide or albumin does not cause proteasome inhibition. (A-C) Hippocampi from naive mice were harvested and synaptosomes were isolated. Synaptosome preparations were then exposed to Scrambled A β (ScrA β), albumin, or vehicle for 1 h at 37 °C, and proteasomal chymotrypsin-, trypsin-, and caspase-like activities were measured and normalized by control. (D-F) Data expressed as relative fluorescence units for graphs A-C ($n = 5$ synaptosomal preparations from independent mice; Two-tailed One-way Anova with Holm Sidak correction.

Veh
AβOs
Veh
AβOs

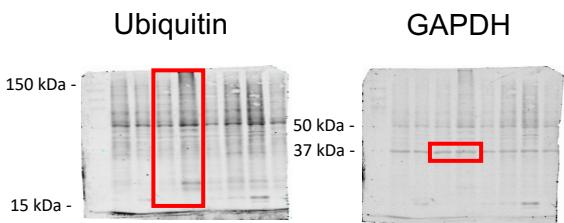
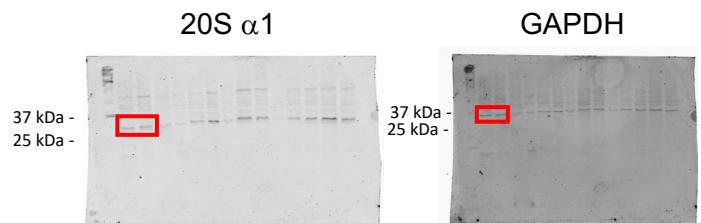
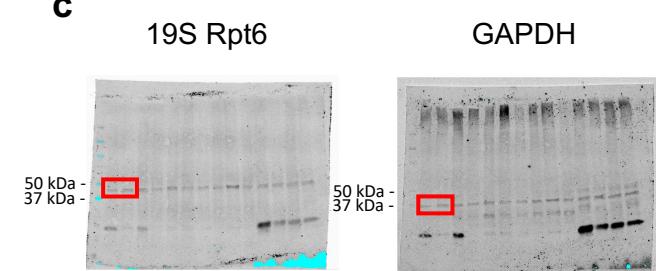
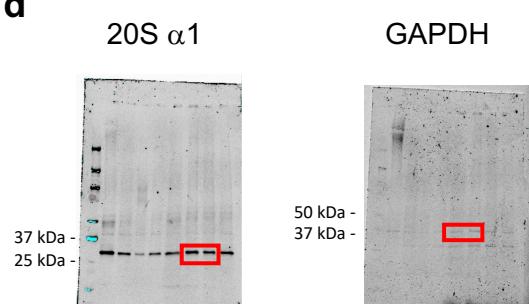
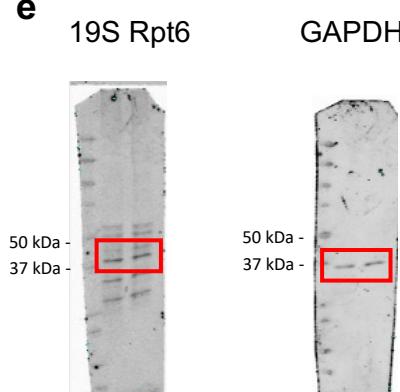
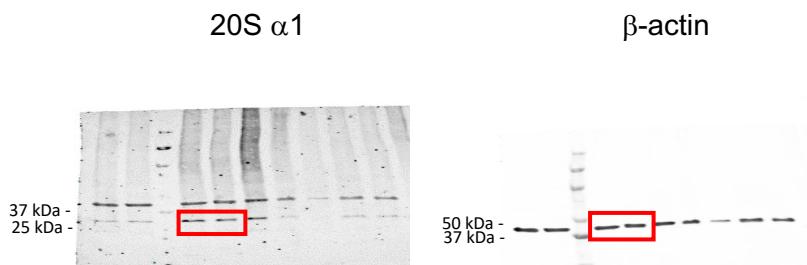
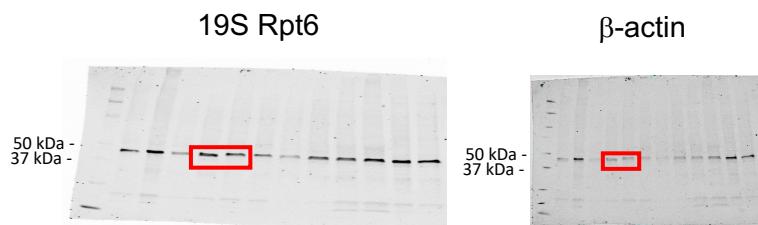
Veh
AβOs
Veh
AβOs

250 kDa -

20 kDa -



Supplementary Figure 3. A β Os were not detected in soluble fractions of synaptosome preparations. Synthetic A β Os or vehicle were added to synaptosome preparations for 20 min at 37° C. The synaptosome preparations were either lysed in standard conditions or with a hypotonic buffer and centrifuged to 15 000 g for 10 min at 4°C to remove membrane fraction. We detected A β Os selectively in total synaptosomes preparations and not in the lysed supernatant, nor in vehicle-treated synaptosomes (n = 2).

a**Fig 1a****b****Fig 1b****c****Fig 1c****d****Fig 1g****e****Fig 1h****f****Fig 2d****g****Fig 2e**

Supplementary Figure 4. Full blots relative to panels presented in Figures 1 and 2.

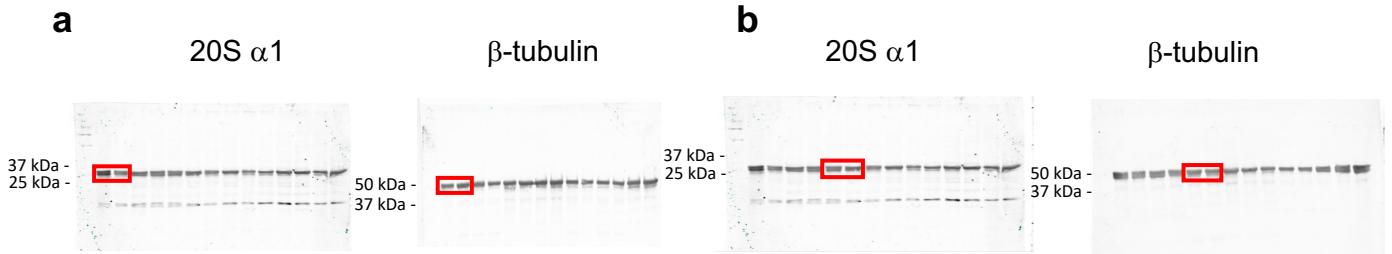


Fig 4d

Fig 4e

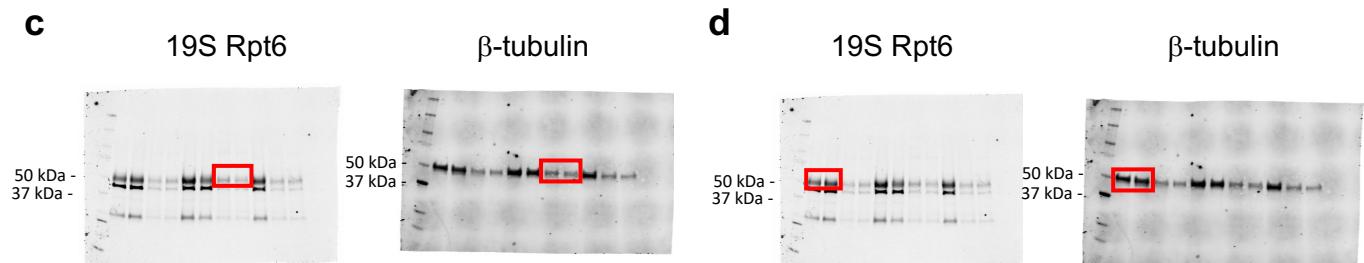


Fig 4f

Fig 4g

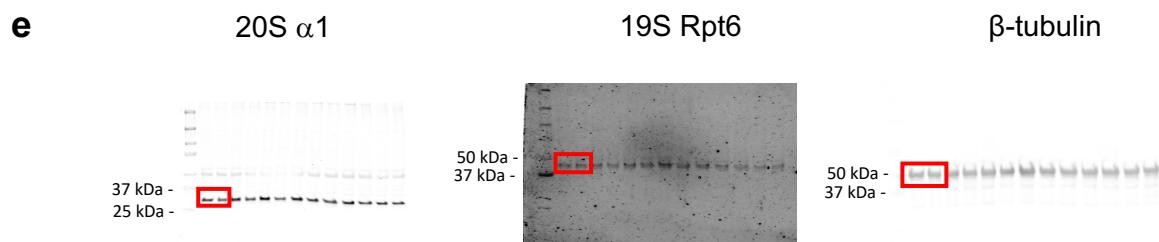


Fig 5d

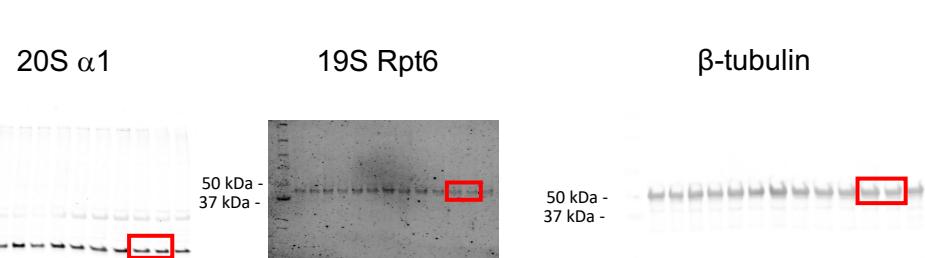


Fig 5e

Fig 6e

**Supplementary Figure 5. Full blots relative to panels
presented in Figures 4, 5 and 6.**