SUPPLEMENTARY INFORMATION

PAI-1 protein is a key molecular effector in the transition from normal to PTSD-like fear memory

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**Supplementary Figure Legends**

**Fig. S1** Corticosterone and restraint stress did not modify the expression of total proteins. (a) Western Blot and (b) densitometric analysis of α-tubulin protein expression used as a loading control in PC12 cells in response to 100 nM and 1000 nM of Cort for 3 h (180 min). (c) Western Blot and (d) densitometric analyses of TrkB, Erk1/2MAPK and βIII-tubulin proteins from dorsal hippocampal slices extracts of Sprague-Dawley rats incubated with 10 nM and 1000 nM of Cort for 1 h (60 min) and 3 h (180 min). (e) Western Blot and (f) densitometric analyses of Erk1/2MAPK and βIII-tubulin protein expressions used as a loading control from dorsal hippocampus extracts from C57BL/6J mice in response to 30 min, 1 h (60 min) and 3 h (180 min) restraint stress. Dunnett’s multiple comparisons post-hoc test after ANOVA, all \( p = \text{ns} \). Plotted values are means \( +/- \) sem.

**Fig. S2** The development of PTSD-like memory is not associated with changes in total proteins. Densitometric analyses of the expression of Erk1/2MAPK protein in the dorsal hippocampus at different times after the conditioning sessions (a) and expressed as area under the curve encompassing the 24 h of analysis (b). Example of the Western Blot used for protein quantification after normalization with the level of βIII-tubulin (c). Immediately after the conditioning session animals received an injection of either vehicle (Veh; NaCl 0.9% i.p., white symbol) or of Cort (2 mg/kg i.p., black symbol). Grey symbol, control animals that were manipulated but not exposed to conditioning. Student’s t-test and Sidak’s multiple comparisons post-hoc test after ANOVA, all \( p = \text{ns} \). Plotted values are means \( +/- \) sem.