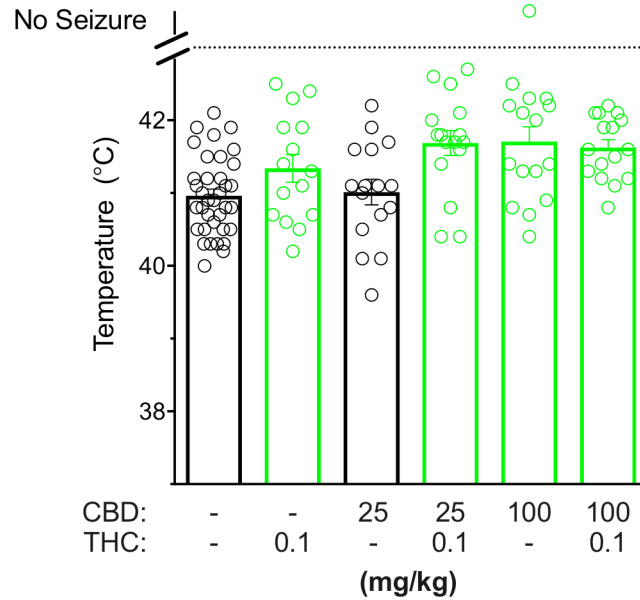


SUPPORTING INFORMATION

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Supporting Figure 1. Dose-response of CBD combination treatment with THC against hyperthermia-induced seizures in *Scn1a*^{+/-} mice. Temperature threshold of individual mice for GTCS induced by hyperthermia following acute treatment with THC (0.1 mg/kg) or CBD (25 or 100 mg/kg) administered individually or as a combination. CBD (25 mg/kg) had no effect on GTCS threshold. All other treatments resulted in significantly improved response to thermal seizure induction compared to vehicle (green, open symbols; $p < 0.05$). The average temperatures of seizure induction are depicted by the bars and error bars represent SEM, with $n = 15-36$ per treatment group.

Supporting Table 1. Cannabinoid concentrations in plasma and brain samples

	Plasma Concentration (ng/mL)	Brain Concentration (ng/mL brain)	Brain:plasma Ratio
CBD			
12 mg/kg	402 ± 59	196 ± 45	1 : 2.1
12 mg/kg + 0.1 mg/kg THC	689 ± 104	386 ± 125	1 : 1.8
3500 mg/ kg chow	450 ± 94	617 ± 18	1.4 : 1
7000 mg/ kg chow	654 ± 49	809 ± 153	1.2 : 1
900 mg + 35 mg THC/ kg chow	421 ± 116	201 ± 37	1 : 2.1
3500 mg + 70 mg THC/ kg chow	1703 ± 155	1255 ± 146	1 : 1.4
THC			
0.1 mg/kg	3 ± 1	4 ± 1	1.3 : 1
0.1 mg/kg + 12 mg/kg CBD	9 ± 1	5 ± 2	1 : 1.8
70 mg/ kg chow	4 ± 1	14 ± 2	3.5 : 1
200 mg/ kg chow	18 ± 3	27 ± 8	1.5 : 1
35 mg + 900 mg CBD/ kg chow	6 ± 1	11 ± 3	1.8 : 1
70 mg+ 3000 mg CBD/ kg chow	16 ± 3	23 ± 8	1.4 : 1