Supplemental Figures and Figure Legends

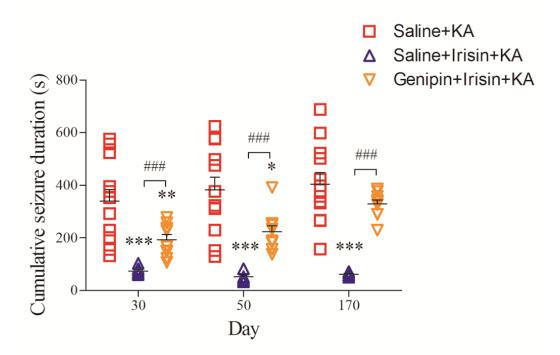


Fig. S1 Cumulative seizure duration from EEG analysis in each group. *P < 0.05, **P < 0.01, ***P < 0.001 vs Saline+KA group; ***P < 0.001 vs each other (one-way ANOVA with Dunnett's T3 post-hoc test).

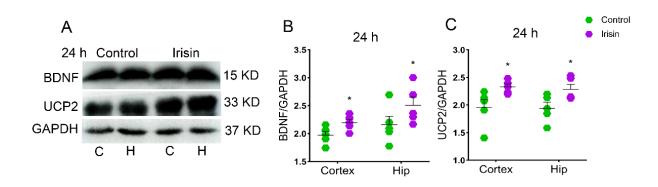


Fig. S2 A–C Levels of BDNF and UCP2 at 24 h in control and irisin groups (n = 5/group). *P < 0.05 vs control group (one-way ANOVA). C, cortex; H/Hip, hippocampus; BDNF, brain-derived neurotrophic factor; UCP2, uncoupling protein 2.

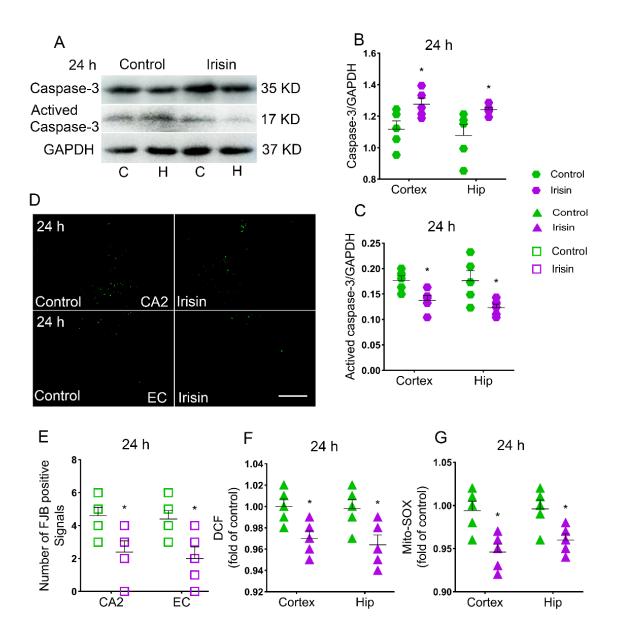


Fig. S3 A–C Levels of caspase-3 and activated caspase-3 at 24 h in control and irisin groups (n = 5/group). **D–H** FJB signal patterns in CA2 and EC at 24 h (n = 5/group; scale bar, 100 µm). *P < 0.05 vs control group (one-way ANOVA). C, cortex; CA2, cornu ammonis 2; EC, entorhinal cortex; H/Hip, hippocampus; DCF, 2',7'-dichlorofluorescin; FJB, Fluoro-Jade B.

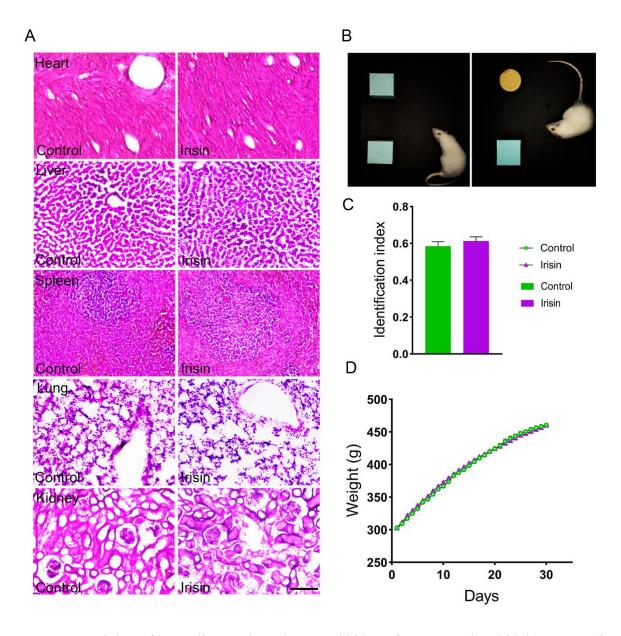


Fig. S4 A HE staining of heart, liver, spleen, lung, and kidney from control and irisin groups (day 30, n = 8/group, scale bar, 100 µm). **B, C** The novel object recognition test (**B**) and identification index (**C**) (n = 10/group, on day 30). **D** Weights of rats on a normal diet in the control and irisin groups (n = 8/group).