

**Fig. S1.**

Protein derived from chicken embryo shows anti-aging activity. (A) Representative histopathological images of liver, kidney and brain by HE staining under an Olympus light microscope (scale bars = 50  $\mu$ m). (B) The electron images of liver and kidney were shown at 10,000 magnification, 20,000 magnification and 150,000 magnification respectively. (C) The intracellular ROS level was measured using H2DCF-DA. (D) The mitochondrial membrane potential was determined by fluorescent intensity of Rh123. (E) Autophagy-related proteins (LC3-II and Beclin-1) of liver and brain were detected by Western blot analysis. GAPDH was served as endogenous control.

