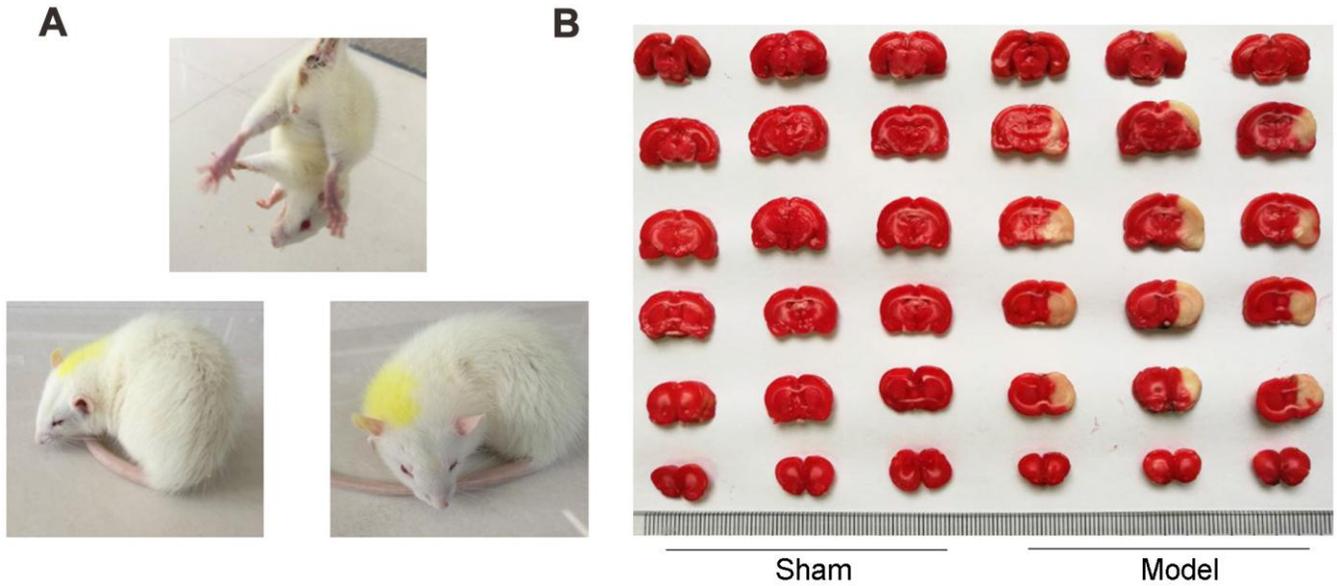
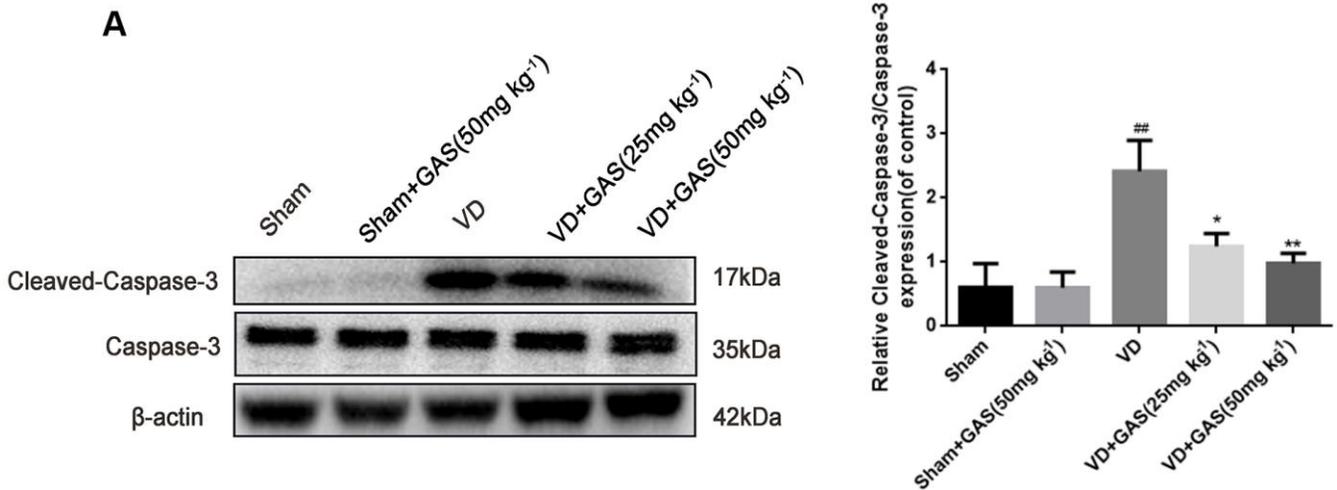


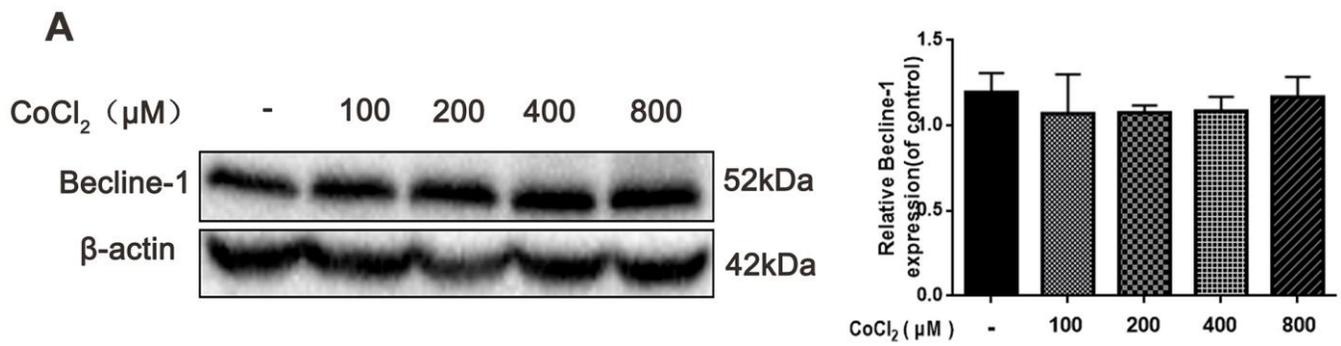
SUPPLEMENTARY FIGURES



**Supplementary Figure 1. Establishment of a rat model of vascular dementia.** (A) Representative images of “Longa scoring”. (B) Tetrazolium Chloride (TTC) staining in rat brain tissue.



**Supplementary Figure 2. Effects of GAS on the protein expression of Caspase-3 in the hippocampus tissues of rats.** (A) The protein extract of hippocampal tissue was analyzed by Western blotting with Cleaved-Caspase-3 and Caspase-3 (left). Protein levels were quantified and normalized to β-actin (right). Data represent the mean ± SEM. <sup>##</sup>*P* < 0.01 versus sham, <sup>\*</sup>*P* < 0.05, <sup>\*\*</sup>*P* < 0.01 versus model.



**Supplementary Figure 3. Effects of CoCl<sub>2</sub> on the expression of autophagy-related proteins in HT22 cells.** (A) Immunoblots showed levels of Becline-1 in HT22 cells treated with various concentrations of CoCl<sub>2</sub> (0, 100, 200, 400 and 800 μM) for 24 h. β-actin was used as loading control. Data represent the mean ± SEM. **##***P* < 0.01 versus control.