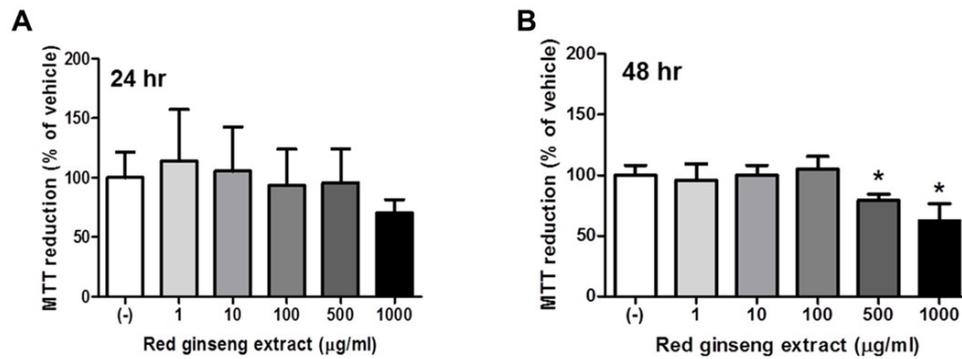
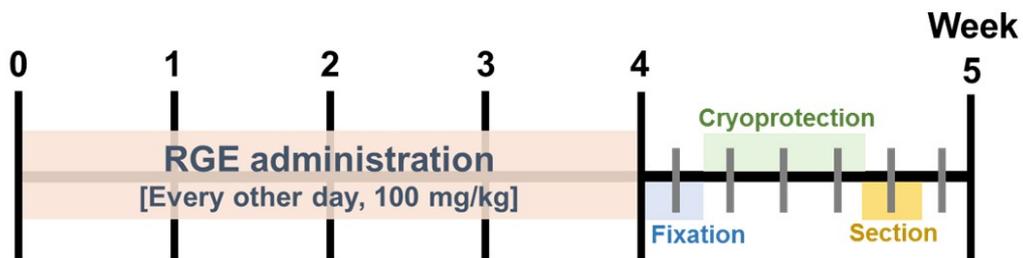


## Supplementary Materials



**Supplementary Figure 1.** Cytotoxicity of RGE to the HT22 cell line. HT22 hippocampal neuronal cells were treated with various concentrations of RGE (1, 10, 100, 500, and 1000 µg/ml) for 24 h (A) and 48 h (B). \* $p < 0.05$  compared with the vehicle-treated group.



**Supplementary Figure 2.** The experimental design for evaluation of RGE in 5XFAD mice. Oral administration was performed for treatment with vehicle or RGE every other day for 4 weeks. At 24 h after the last administration, WT and 5XFAD mice were sacrificed and brain sections were analyzed by histological staining.