

Supplementary materials

Curcumin rescues cognitive deficits by inhibiting neuroinflammation through the endoplasmic reticulum stress pathway in apolipoprotein E4 transgenic mice

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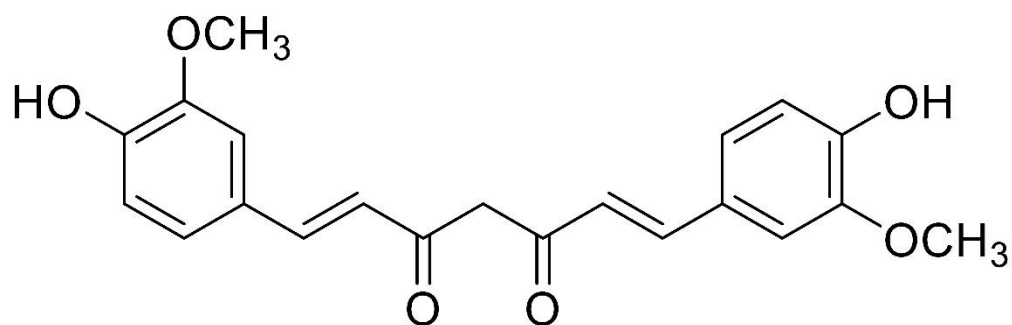


Figure S. 1. Chemical structure of curcumin

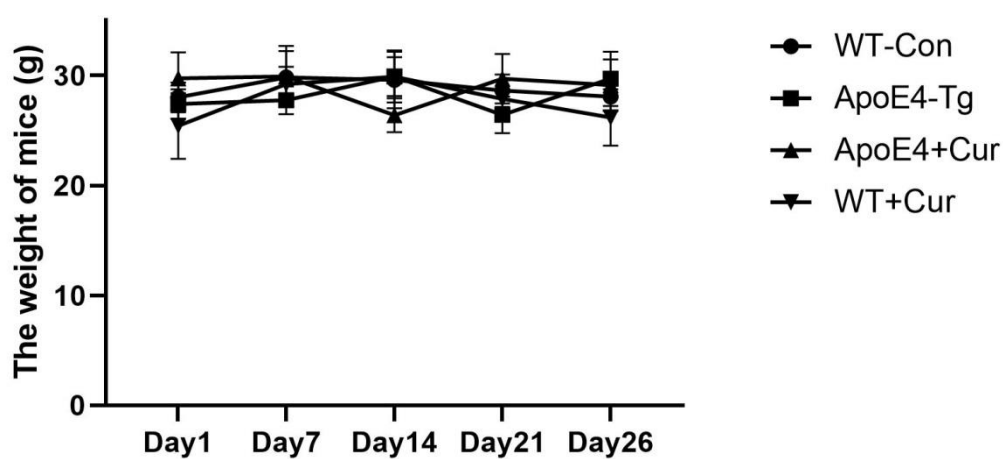


Figure S.2 Effect of curcumin on body weight in mice

During curcumin treatment, the weigh of mice was stable and recorded once a week. Data are expressed as the mean \pm S.E.M. n=8.

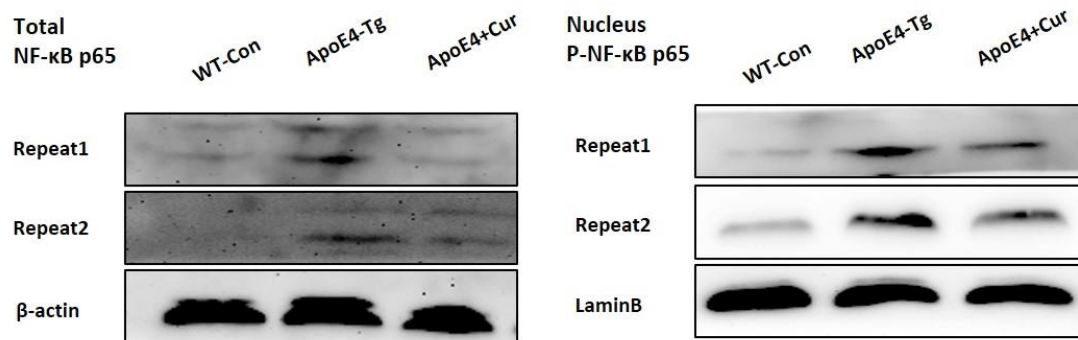


Figure S.3 The other two repeats of Western Expression of NF-κB p65 and p-NF-κB. The expression of NF-κB p65 and p-NF-κB in the total and nuclear fractions were determined by Western blotting analysis.

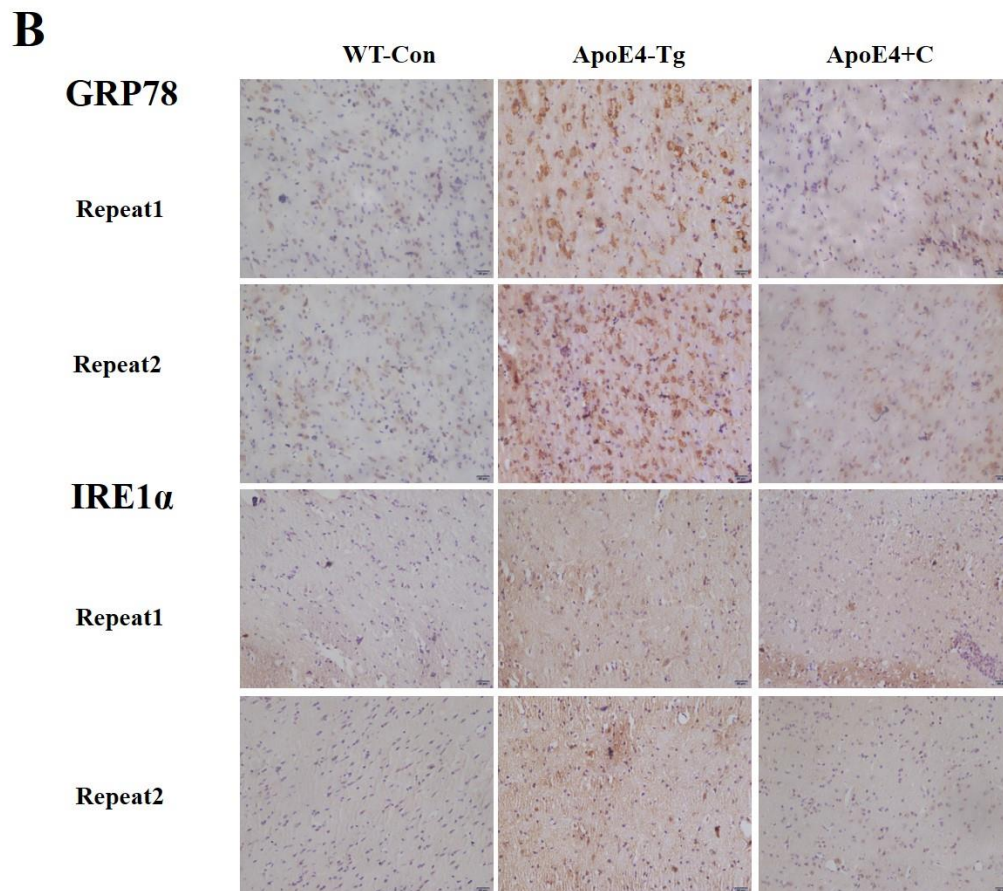
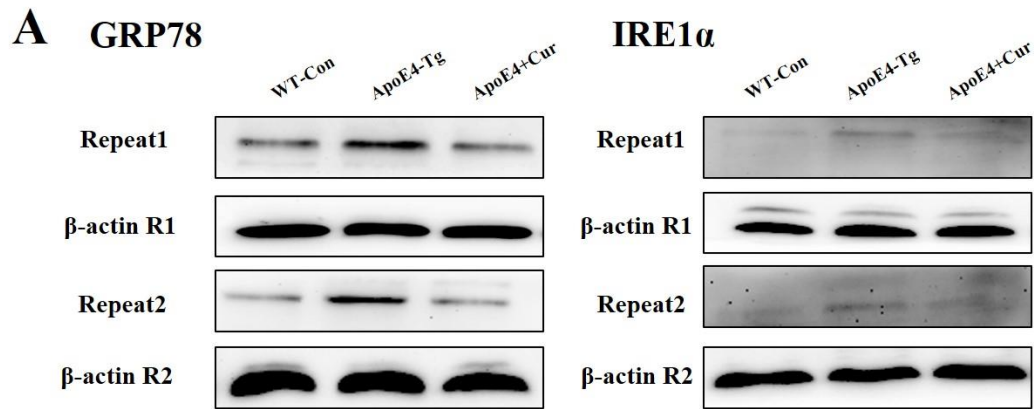


Figure S.4 A The other two repeats of Western Expression of GRP78 and IRE1 α were detected through Western blotting using specific antibodies in mouse brain tissue. **Figure S.4 B** The two repeats of IHC Expression of GRP78 and IRE1 α in WT and ApoE4 mice was determined by immunohistochemistry.

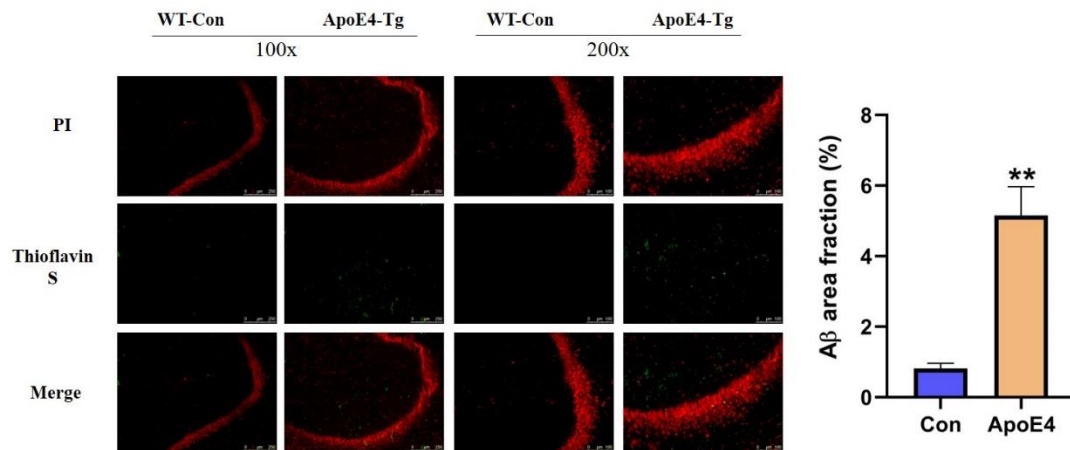


Figure S.5 Plaque burden developed in ApoE4-Tg mice. Representative images were chosen from each experimental group, Scale bar = 250 μ m and 100 μ m

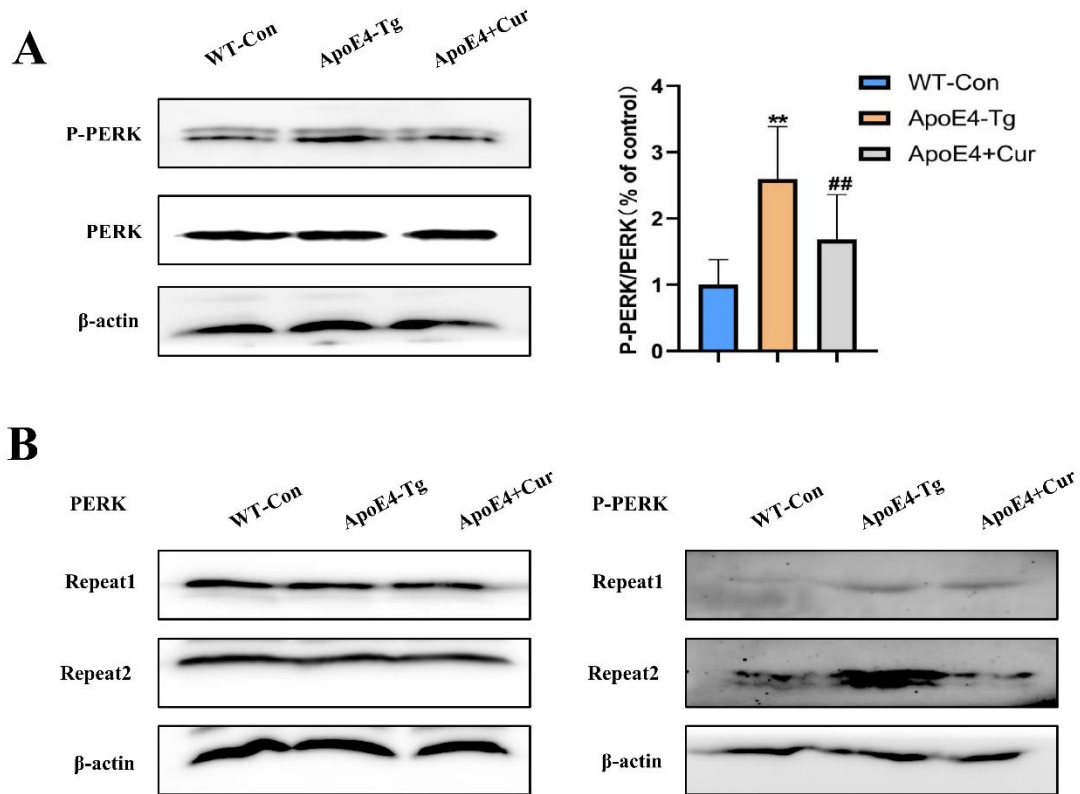


Figure S.6 A The representative image and quantification analysis showed P-PERK expression was enhanced in ApoE4-Tg mice, which could be reduced by curcumin treatment.

Figure S.6 B The other two repeats of Western Expression of P-PERK were detected through Western blotting using specific antibodies in mouse brain tissue.