Hydroxycinnamic acid from Corncob and Its Structural Analogue Inhibit Aβ40 Fibrillation and Attenuate Aβ40-Induced Cytotoxicity

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Figure S1. A: The influence of Aβ40 (incubated for 0 h or 24 h) on the ThT fluorescence. B: Congo red binding spectra of Aβ40 incubated for 24 h.



Figure S2. The fluorescence scanning of small molecules and 25 μM ThT. The excitation wavelength was 445 nm and the emission wavelength was 485-500 nm. A:4-HA, B:3-HA, D:2-HA, D:CA, E:3,4-DA, F:2,3-DA, G:3,4,5-TA.



Figure S3. Far-UV circular dichroism spectra of small molecules at 0 h (A) and 24 h (B). [Small molecule], 200 μM.



Figure S4. Cytotoxicity of PC12 cells induced by small molecules. The cell viabilities were estimated by MTT. In the MTT assay, the cell viability treated with PBS buffer alone was set to 100%. The data were presented as mean \pm SD (n=6), *p<0.05, **p<0.01, ***p<0.001, compared to the control group.



Figure S5. A: Amino Acid Sequence of Aβ40. B: structure of Aβ40 (left is the model of ball and stick

and right is the model of pretty)