Supplementary Data

Triptolide Inhibits Amyloid-β Production and Protects Neural Cells by Inhibiting CXCR2 Activity

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Supplementary Figure 1. CXCL1 and CXCL8 stimulated CXCR2 activity with the EC50 values 11 nM and 30 nM, respectively.

Supplementary Figure 2. Triptolide and VPC23019 (a known inhibitor of S1P1) inhibited S1P1 activity with IC50 values 320 nM and 8 nM, respectively.

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Supplementary Figure 3. The mRNA levels of components of γ-secretase did not change upon triptolide treatment. SHSY5Ysw cells were treated with different concentrations of triptolide or 1% DMSO (as control) for 4 h. The mRNA levels of γ-secretase components (A) Pen-1, (B) Aph-1, (C) NCT, and (D) AβPP were detected by qRT-PCR.

Supplementary Figure 4. Triptolide inhibited BACE1 expression in a dose dependent manner. SHSY5Ysw cells were treated with different concentrations of triptolide or 1% DMSO (as control). BACE1 expression level was detected by qRT-PCR analysis. *p<0.05, **p<0.001 compared with the control group (cells treated with 1% DMSO served as control).

Supplementary Figure 5. Triptolide did not affect Aβ degrading enzymes. CHO cells were treated with HEK293sw cell condition medium with different concentrations of triptolide for 6 h. The results showed that there was no alteration of Aβ production caused by triptolide. The culture medium F12/DMEM/10% FBS served as control.