

**Figure S1.** The effect of EGB on cell viability in astrocytes.

A. MTT assay detecting the cell viability treated with different dosages of EGB for 24 h.

B-C MTT assay detecting the cell viability treated with different dosages of EGB for 6h during OGD induction. Data are expressed as mean  $\pm$  SEM (n = 6). \* $P < 0.05$ , \*\* $P < 0.01$ , \*\*\* $P < 0.001$  vs. the control groups, # $P < 0.05$ , ## $P < 0.01$  and ### $P < 0.001$  vs. the OGD groups.

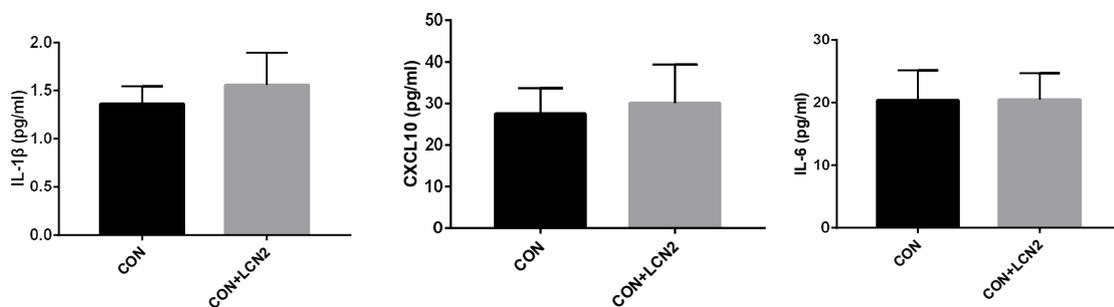


Figure S2 Analysis showing the relative levels of the pro-inflammatory mediators IL-1 $\beta$ , IL-6, and CXCL10 (IP-10) in control cell and LCN2 overexpression cell conditioned in medium without OGD deprivation.

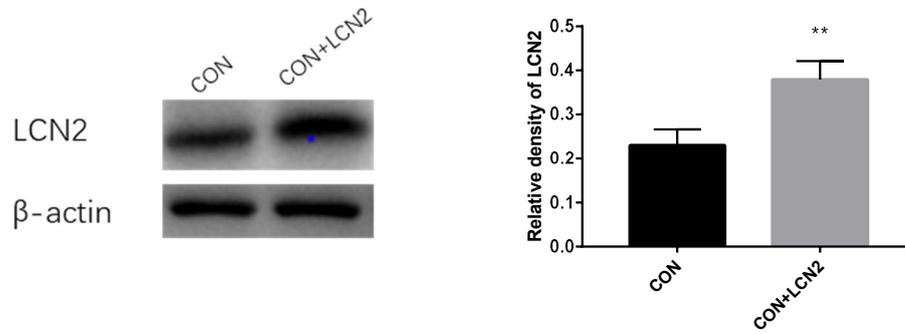


Figure S3 The expression of astrocytic LCN2 in vitro without OGD deprivation.