



Supplemental Fig. S1. Clusterin (CLU) improves glucose-stimulated insulin secretion (GSIS) in lipotoxicity-condition. Mouse insulinoma 6 (MIN6) cells were incubated with 0 or 10 $\mu\text{g/L}$ CLU in presence or absence of 0.5 mM palmitate (PA) for 24 hours. After cells were starved by incubation with glucose free-Krebs Ringer bicarbonate HEPES buffer, insulin secretion was induced in 1 or 4.5 g/L glucose in Dulbecco's Modified Eagle's Medium (DMEM) for 1 hour. Released insulin was measured by mouse insulin enzyme-linked immunosorbent assay (ELISA) kit, and all values are expressed as mean \pm standard error of the mean ($n=4-5$). ^a $P < 0.001$ compared to vehicle (VEH) of the 1 g/L glucose group; ^b $P < 0.05$ compared to VEH of the 4.5 g/L glucose group; ^c $P < 0.05$ compared to PA of the 4.5 g/L glucose group.