



**Supplementary Fig. 2.** Palmitic acid (PA) increases mitochondria-associated endoplasmic reticulum membrane (MAM) formation and PDZ domain-containing 8 (PDZD8) expression in insulin 1 (INS-1) cells. (A, B) The MAM in INS-1 cells was measured using the transmission electron microscopy (TEM). The red arrows point to MAM. (C) The interaction between voltage-dependent anion-selective channel 1 (VDAC1) and inositol 1,4,5-triphosphate receptor type 1 (IP3R1) was detected using the proximity ligation assay. (D) The protein expression of PDZD8 and MAM-related proteins in INS-1 cells were detected by Western blotting. Con, control; M, mitochondria; GRP75, glucose-regulated protein 75; PDI, protein disulfide isomerase; COX IV, cytochrome c oxidase 4. <sup>a</sup>*P*<0.05.