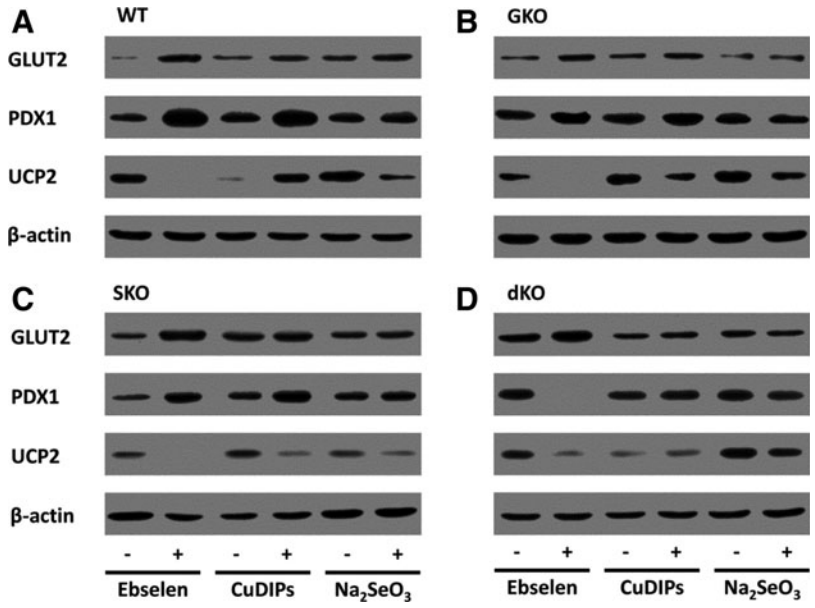
Supplementary Data



SUPPLEMENTARY FIG. S1. Impacts of the GPX and SOD mimics and inorganic selenium on protein production of key GSIS regulators in islets. The islets were isolated from WT **(A),** GKO **(B),** SKO **(C),** and dKO **(D)** mice and pre-treated with ebselen (50 μM in DMSO), CuDIPs (10 μM in ethanol), and sodium selenite (100 nM in saline) or the respective solvent controls for 5 h. Thereafter, the islets were stimulated by 16.7 mM glucose for 1 h.The blots are representatives of five independent Western-blot analyses for GLUT2, PDX1, and UCP2. + represents treated and - represents respective solvent control groups. CuDIPs, copper diisopropylsalicylate; dKO, double knockout of GPX1 and SOD1; DMSO, dimethyl sulfoxide; GKO, GPX1 knockout; GLUT2, glucose transporter type 2; GSIS, glucose-stimulated insulin secretion; PDX1, pancreatic and duodenal homeobox 1; SEM, standard error of the mean; SKO, SOD1 knockout; UCP2, uncoupling protein 2; and WT, wild type.