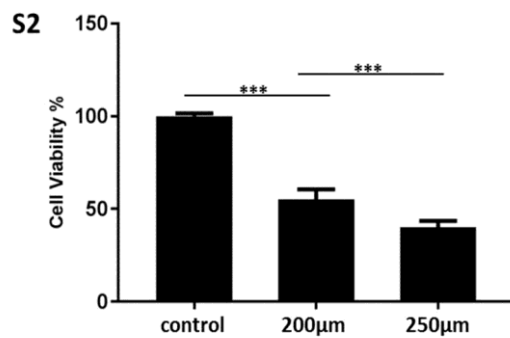


**Figure S1. High glucose decreased INS-1 cell viability by inducing apoptosis**

(A) Measurement of cell viability using an MTT assay. INS-1 cells were treated with 33 mM high glucose for 24, 72 and 96 h and then subjected to the MTT assay. INS-1 cells treated with 11 mM glucose were used as a control. Data are presented as the mean  $\pm$  S.D. (n = 3).

(B) Detection of cell apoptosis by flow cytometry. INS-1 cells were treated with high (33 mM) glucose for 48 h and then subjected to flow cytometry using Annexin V/PI staining. \*\*\* p<0.001 versus the 11 mM glucose group.



**Figure S2. The effects of different concentrations of PA on INS-1 cell viability**

INS-1 cells were treated with 200 or 250 µM PA for 24 h and then subjected to an MTT assay. Data are represented as the mean  $\pm$  S.D. (n = 3); \*\*\* p<0.001 versus the control group.