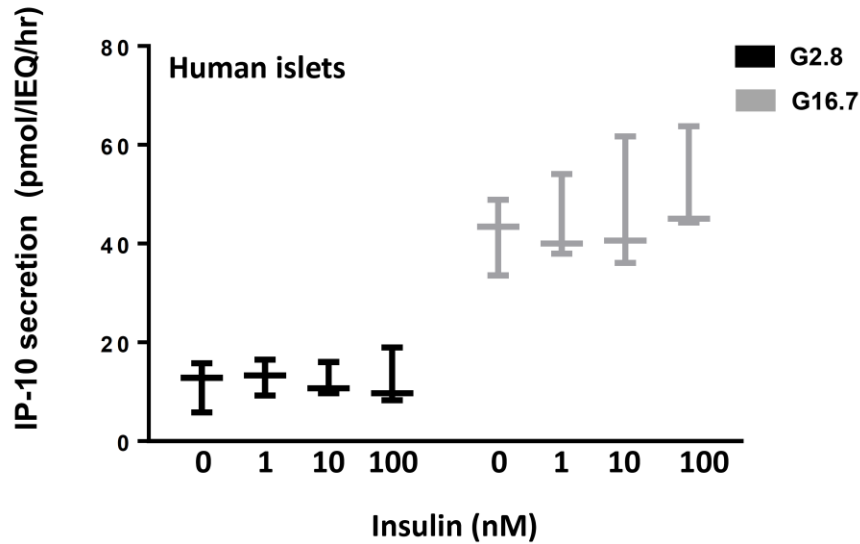
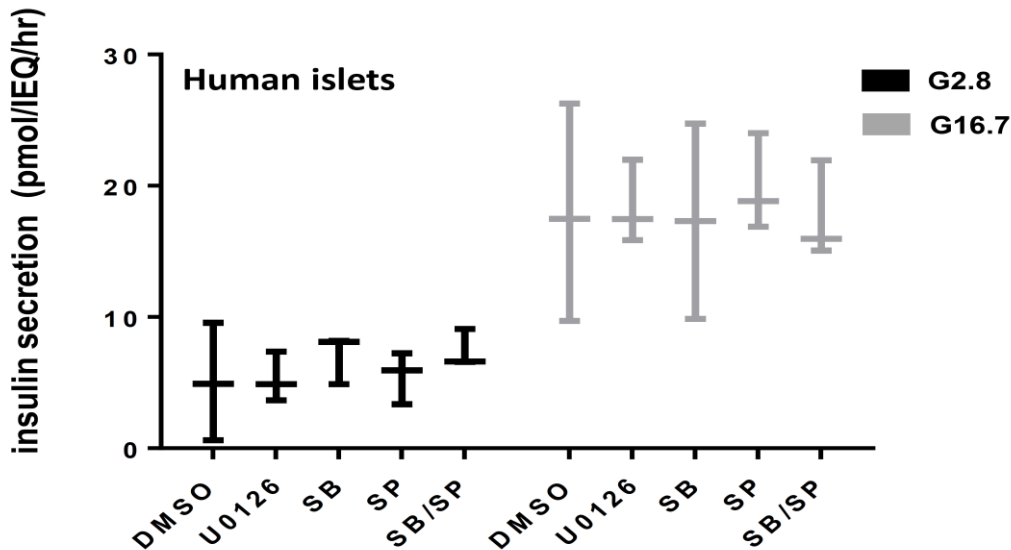


SUPPLEMENTARY DATA

Supplementary Figure 1. Effect of insulin on IP-10 release in human islets. Isolated human islets were pretreated with IL-1 β for 6 h before exposure to 1-100 nM recombinant insulin in the presence of low 2.8 mM and high 16.7 mM glucose and assayed for IP-10 release by ELISA. Data are represented as mean values with STD of 3 independent experiments.

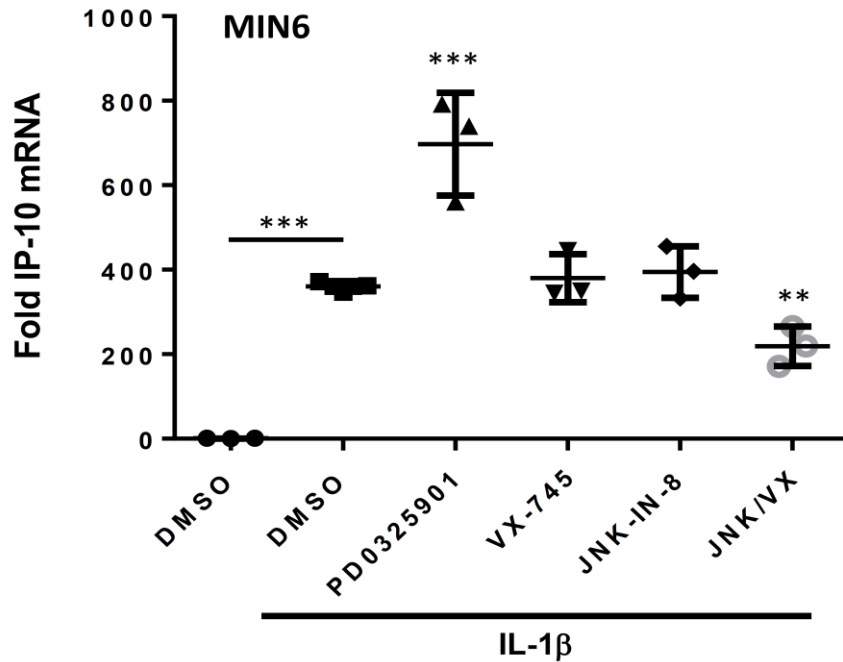


Supplementary Figure 2. Effect of MAPK inhibitors on insulin secretion. Isolated human islets were pretreated for 15 min with 10 μ M MAP inhibitors and placed in low 2.8 mM and high 16.7 mM glucose medium for static incubation for 2 h and assayed for insulin release by ELISA. Data are represented as mean values with STD of 3 independent experiments.



SUPPLEMENTARY DATA

Supplementary Figure 3. Effect of MAPK inhibitors on IP10 gene expression. MIN6 cells were pretreated for 15 min with 1 μ M ERK inhibitor PD0325901, p38 inhibitor VX-745, JNK inhibitor JNK-IN-8, or combination of JNK and p38 inhibitors (JNK/VX) and placed in low 2.8 mM and high 16.7 mM glucose medium for 2 h. Cells were harvested for mRNA and converted to cDNA to be assayed for gene expression by QPCR. Asterisks denote statistical significance (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$) in mean values compared to untreated control (* above bar) or condition indicated by lines (* above line) based on two-tailed Student's t-test. Data are represented as individual plots of means of replicates and mean values of 3 independent experiments are indicated by bars with STD.



SUPPLEMENTARY DATA

Supplementary Figure 4. Effect of IP-10 on insulin secretion and apoptosis in islets and beta cells.

(A) Isolated human islets were treated with 1-100 nM recombinant IP-10 in static incubation with low 2.8 mM and high 16.7 mM glucose for 2 h and assayed for insulin release by ELISA. (B) MIN6 cells were treated with 5 ng/mL IL-1 β , 10 ng/mL TNF- α , and 50 ng/mL IFN- γ cytokines (CC) or 100 ng/mL for 24 h and assayed for apoptosis by Promega Caspase-Glo 3/7 assay. Asterisks denote statistical significance (* $p < 0.05$) in mean values based on one-way ANOVA. Data are represented as mean values with STD of 3 independent experiments.

