

Supplemental Figure Legends

Supplemental Figure 1. Knockdown of Akt 1 and 2 but not 3 in INS-1 β -cells. INS-1 cells were transfected with scramble (200 nM) or Akt 1&2 (100 nM each) siRNA as described in the methods and experiments performed 72 h later. Western analysis was performed on total cell lysates with indicated antibodies. Shown are representative blots of 3 independent experiments. Anti- β -actin blot was an internal control.

Supplemental Figure 2. Inhibitors of p38 MAPK and JNK suppress STS-induced INS-1 cell death in a concentration dependent manner. INS-1 cells were treated without or with STS (100 nM) \pm increasing concentrations (0.5 μ M – 10 μ M) of p38 MAPK inhibitors (SB 203580 or SB 202190) or JNK inhibitors (SP600125 or JNK Inhibitor VIII) for 6 h and cell death determined. Mean \pm SEM of cell death (n=4); #, $p < 0.05$ vs STS only.

Supplemental Figure 3. GIP promotes survival of STS treated MIN6 cells via suppression of p38 MAPK and JNK. *A*, MIN6 cells were treated without or with STS (500 nM) \pm 10 nM GIP for 6 h and cell death determined. Mean \pm SEM (n=4); #, $p < 0.05$ as indicated. *B*, MIN6 cells were treated without or with STS (500 nM) \pm 10 nM GIP for 4 h and Western analysis performed on total cell lysates with indicated antibodies. *C*, MIN6 cells were treated without or with STS \pm p38 MAPK inhibitor (p38i; 5 μ M SB 203580) and JNK inhibitor (JNKi; 5 μ M SP600125) for 6 h and cell death determined. Mean \pm SEM of cell death (n=4); #, $p < 0.05$ as indicated. *D*, MIN6 cells were treated without or with STS (500 nM) \pm p38 MAPK inhibitor (p38i; 5 μ M SB 203580) and JNK inhibitor (JNKi; 5 μ M SP600125) for 4 h and Western analysis performed on total cell lysates with indicated antibodies. Shown in *B* and *D* are representative blots of 4 independent experiments. Anti- β -actin blot was an internal control.

Figure S1.

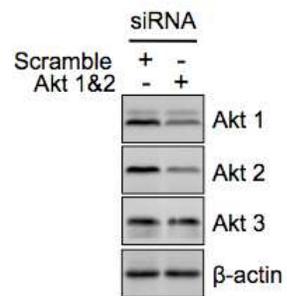


Figure S2.

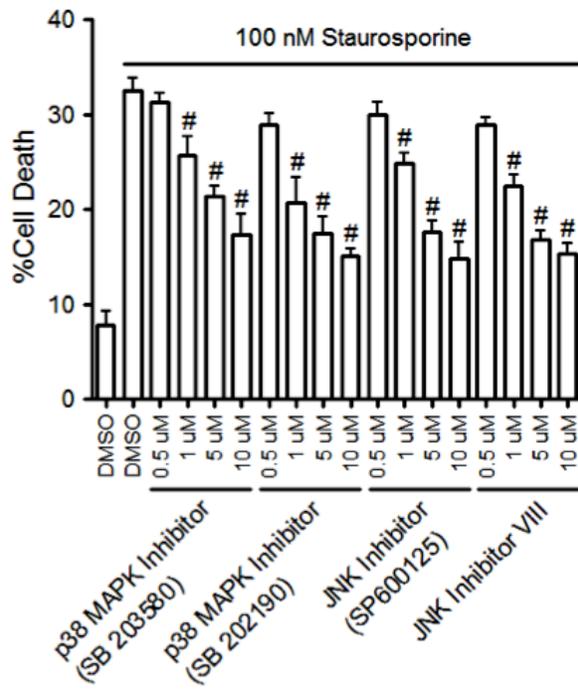


Figure S3.

