Supporting Information

Activation of eIF2α Signaling Cascade is Associated with Testosterone-Induced Cell Apoptosis in INS-1 Cells

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Excess testosterone treatment provoked INS-1 cell apoptosis and ER stress. A Caspase 3/7 activity was measured in INS-1 cells by luminescence following testosterone treatment at the indicated concentrations. B–D Testosterone induced expression of ER stress markers were compared with those induced by tunicamycin. Values represent the mean ± SE. * p<0.05 vs. control treatment. H₂O₂: 100 µM; TN: 10 µg/ml; Tes: 10⁻⁷ M.
Fig. 2S Testosterone induced eIF2α/ATF4/CHOP signaling in INS-1 cells. Representative Western blotting of BIP, phosphorylated eIF2α, ATF4, and CHOP expression after different concentrations and different times of testosterone treatment for 48 hours.
**Fig. 3S** The suppression of CHOP inhibited testosterone induced cell apoptosis. After transfected with CHOP siRNA for 12 hours, INS-1 cells were treated with testosterone (10⁻⁷ M) for another 36 hours. The expression of CHOP A, B and cell apoptosis were measured using flow cytometry C.

**Fig. S3**

A

CHOP

β-actin

GFP siRNA

CHOP siRNA

Tes+GFP siRNA

Tes+CHOP siRNA

B

Relative Units of CHOP

* to GFP siRNA

# to Tes+CHOP siRNA

C

apoptosis rate (%)

* to GFP siRNA

# to Tes+CHOP siRNA