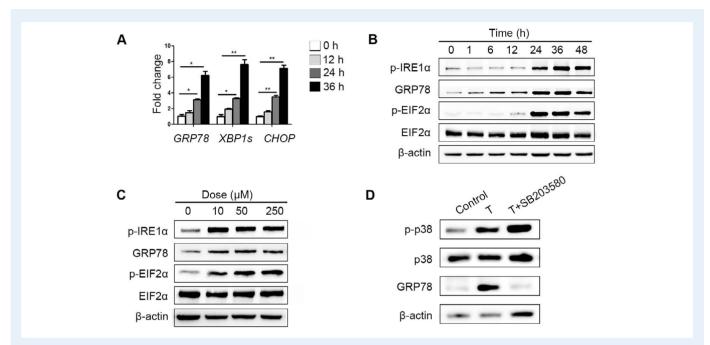
human reproduction

## **SUPPLEMENTARY DATA**



Supplementary Figure S3 Time- and dose-dependent induction of endoplasmic reticulum (ER) stress by testosterone in mouse ovarian granulosa cells (GCs). (A) Real-time qPCR results for the ER stress markers *GRP78*, *XBP1s* and *CHOP* in GCs treated with 10  $\mu$ M testosterone (T) for 0, 12, 24 and 36 h. The data are presented as means  $\pm$  SEMs. \*P < 0.05, \*\*P < 0.01. (B) Western blot results showing the protein levels of the unfolded protein response (UPR) sensor proteins p-IRE1 $\alpha$ , p-EIF2 $\alpha$  and GRP78 in GCs treated with 10  $\mu$ M testosterone for 0, 1, 6, 12, 24, 36 and 48 h. (C) The protein expression levels in GCs treated with 0, 10, 50 or 250  $\mu$ M testosterone for 24 h were detected by western blot analysis. (D) Effects of the p38 MAPK inhibitor SB203580 on the protein levels of total p38 MAPK, p-p38 MAPK and GRP78 during treatment with 10  $\mu$ M testosterone for 24 h.