

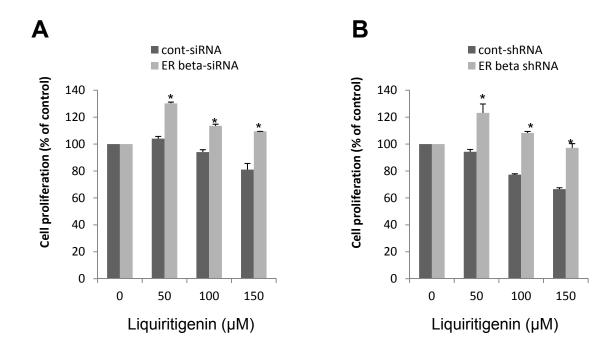
Supplementary Figure 1: Specificity of ER β antibody. (A) U87 and LN229 model cells were transfected with either control or ER β specific siRNA (cat# *L-003402-00-0005, ON-TARGETplus SMARTpool, Fisher Scientific*) and ER β expression was analyzed after 72 h. (B) U87 and LN229 model cells were transfected with control or ER β specific shRNA (cat# TRCN0000003325, Sigma) and ER β expression was analyzed after 72 h.

LIQUIRITIGENIN

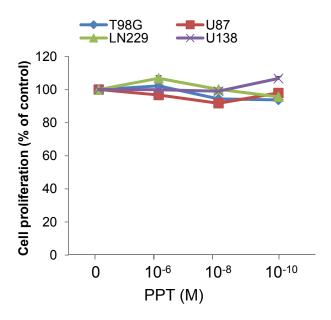
DPN

(2,3-bis(4-Hydroxyphenyl)-propionitrile)

Supplementary Figure S2: Schematic representation of structures of ER β agonists that are used in this study



Supplementary Figure 3: ER β knock down reduces the growth inhibitory effects of liquiritigenin. U87 glioma model cells were transfected with ER β siRNA (**A**) and ER β shRNA (**B**) respectively. Transfection of non-specific siRNA and shRNAs was used as control. After 48h of trasnfection, cells were treated with indicated doses of liquiritigenin and after 72 h proliferation was measured using MTT assay. Results showed that ER β knockdown reduced liquiritigenin growth inhibitory effects. Further, increased proliferation seen in ER β knockdown also supports its tumor suppressive role in glioma cells.



Supplementary Figure 4. ER α agonist propyl-pyrazole triol (PPT) has no effect on the proliferation of glioma cells. T98G, U87, LN229, and U138 glioma cells were treated with vehicle (0.1% DMSO) or indicated concentrations of PPT for 72 h, and proliferation was measured using MTT Assay.