Fig. S1 PSI induced the cell cycles arrest in the H1299 (A), H520 (B), H460 (C), and H446 (D) cell lines. Lung cancer cells were treated with the indicated concentrations of PSI for 12, 24 and 48 h. The cells were collected for cell cycle test by PI staining and analyzed by flow cytometry followed with ModFit LT software.
Fig.S2 PSI treatment induced cell apoptosis analyzed by flow cytometry in H1299 (A), H520 (B), H460 (C), and H446 (D) cell lines. Cells were treated with PSI (0-4 μM, for 48 h), double stained with Annexin V-FITC and PI, and then analyzed by flow cytometry. Cells that stained positive for annexin V-FITC and negative for PI were undergoing early stage of apoptosis (Q1-LR); Cells that stained positive for both annexin V-FITC and PI were in the end stage of apoptosis (Q1-UR); Cells that stained negative for both annexin V-FITC and PI were alive and not undergoing measurable apoptosis (Q1-LL).
Fig S3 The effect of PSI on H1299, H520, H460 and H446 cells mitochondrial membrane potential. Cells were treated with PSI for 48 h and stained with TMRM (100 nM) 30 min prior to flow cytometry analysis. Cells were sorted for low ΔΨm (left side) or high ΔΨm (right side) mitochondrial membrane potential using TMRM.
Fig. S4 A schematic depiction of the signaling pathways in lung cancer cells regulated by PSI.