



**Figure S1** Cell viability was measured in GCs by staining the cells with Annexin V and propidium Iodide solution. (A) These gates cover about 97.5% of all events observed. (B) PI histogram of control cells and different stage of the cell cycle: G1 cells (first peak), G2 cells (second peak) and S-phase region lies between the two major peaks. (C) The histogram of inhibitor treated cells. (D-F) the percentage of treated GCs at each stage (G0-G1, S and G2-M) were calculated. GCs were labeled fluorescently for detection by Annexin V-PI staining (BD, Cat. No. 556547). A minimum of 10,000 cells within the gated region were analyzed, GCs were kept in dark till assessment and were analyzed by flow cytometer within one hour. Cells at FSC-SSC (forward scatter-side scatter) plot were gated according to untreated cells, and the percentage of treated GCs at each stage (G0-G1, S and G2-M) were calculated. We draw the picture by GraphPad Prism 6 software (GraphPad Software Inc., San Diego, CA, USA). One-way analysis of variance (ANOVA) and Duncan's tests were used to analyze the data.  $P < 0.05$  was considered as indicating significant differences between treatment groups, the experiments were performed as independent triplicates.