

Figure S1. Effect of BTK inhibitors on MMP-2 and MMP-9 expression and migration/invasion in MDA-MB-231 cells. (A) MDA-MB-231 cells ( $7 \times 10^5$ ) were treated with BTK inhibitors for 24 h. Cell lysates were analyzed by western blotting using an anti-MMP-2, -9 antibody. The blot was reprobated with an anti- $\beta$ -actin antibody to confirm equal loading. (B) Transwell migration and invasion assays (magnification,  $\times 10$ ) were performed to investigate the effects of BTK on the migration and invasion abilities of MDA-MB-231 cells. Invasion and Migration assays were performed as described in Materials and methods \* $P < 0.005$  vs. untreated control.

