

Figure S1. Morphology of MC3T3-E1 cells. The morphology did not change after treatment with BCE and 10 nM E2 for 48 h. Scale bar, 500  $\mu$ m. Ctrl, control; BCE, blackcurrant extract; E2, 17 $\beta$ -estradiol.

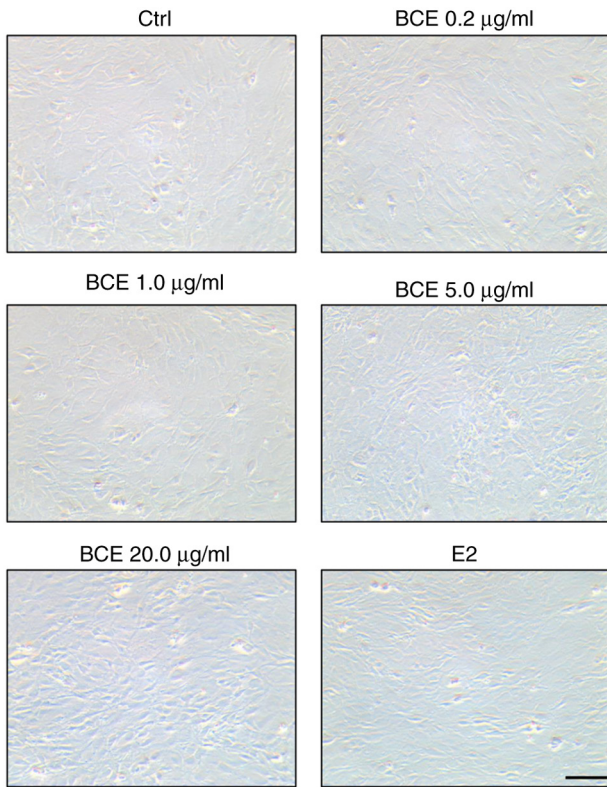


Figure S2. Light micrographs of alkaline phosphatase staining of the femur. Representative alkaline phosphatase staining images of the femur sections of rats in (A) sham, (B) OVX and (C) OVX + 3% BCE groups. Arrows indicate epiphyses. Scale bar, 200  $\mu$ m. OVX, ovariectomized; BCE, blackcurrant extract.

