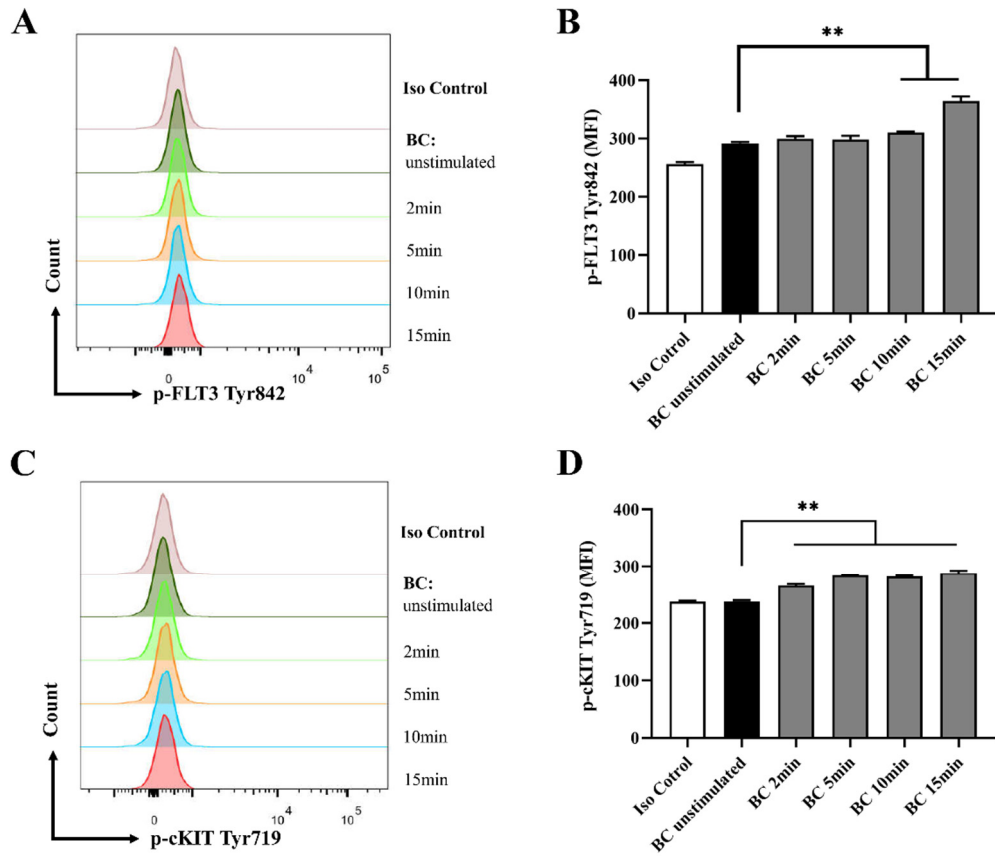
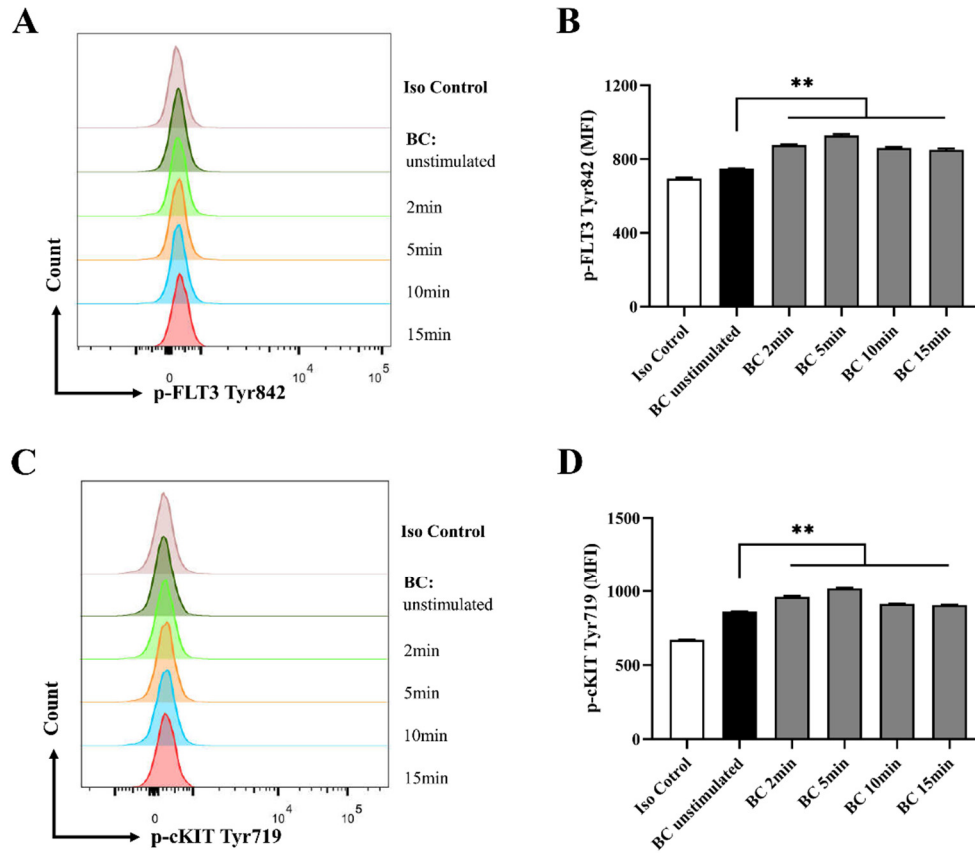


Supplementary Figure S1



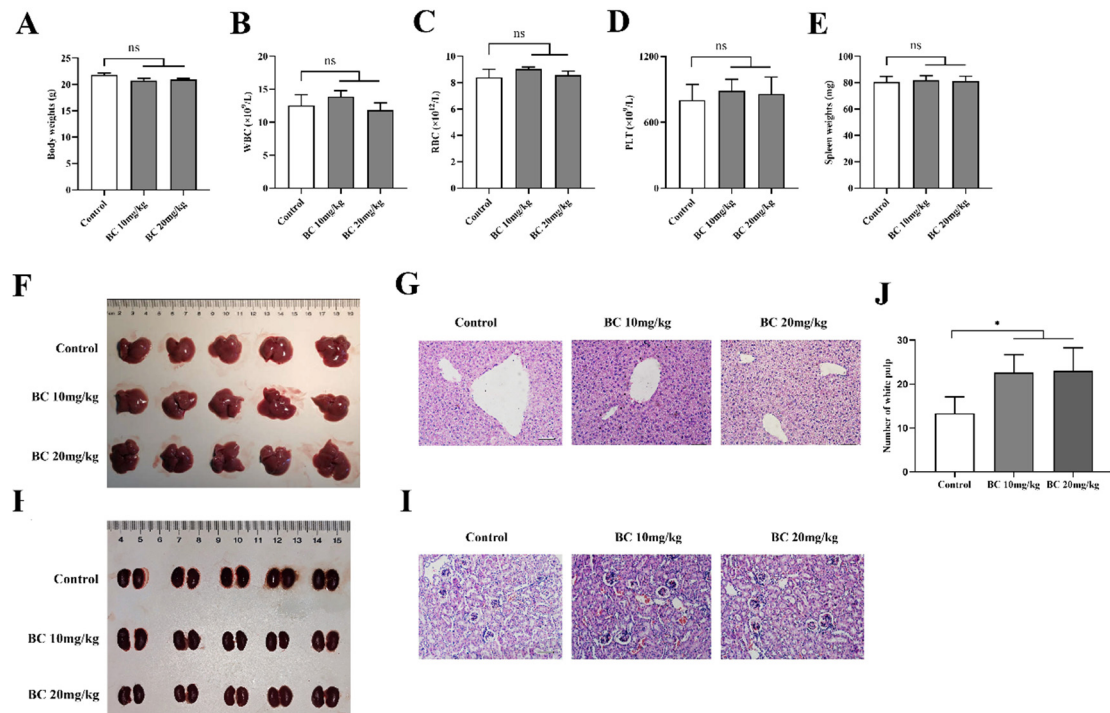
Supplementary Figure S1. The effects of BC on the phosphorylation of FLT3 at Tyr842 and cKIT at Tyr719 in mouse BMMNCs cultured *in vitro*. (A,C) Representative flow cytometry histogram showing the intensity of p-FLT3 Tyr842 (A) and p-cKIT Tyr719 (C) versus cell counts in BMMNCs cultured *in vitro* with or without BC treatment for different times ($n=3$). (B,D) MFI values of p-FLT3 Tyr842 (B) and p-cKIT Tyr719 (D) detected by flow cytometry in (A) and (C) ($n=3$). All data are shown as mean $\pm$ SEM. ** $p < 0.01$ (Student's *t* test).

Supplementary Figure S2



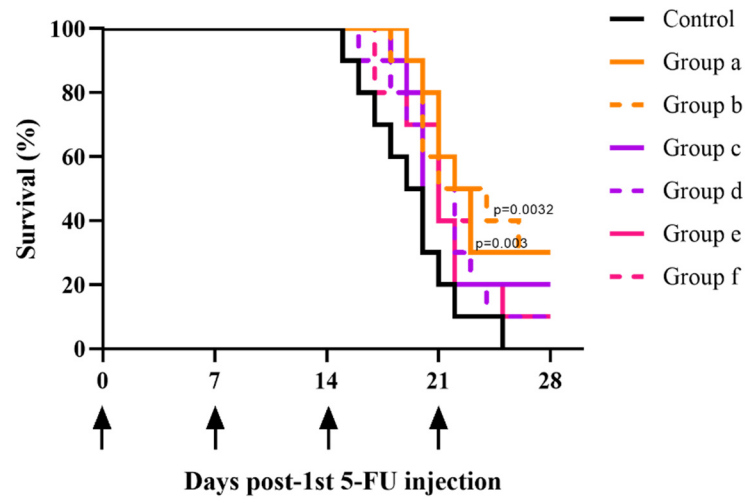
Supplementary Figure S2. The effects of BC on the phosphorylation of FLT3 at Tyr842 and cKIT at Tyr719 in human CD34⁺ UCB cultured *in vitro*. (A,C) Representative flow cytometry histogram showing the intensity of p-FLT3 Tyr842 (A) and p-cKIT Tyr719 (C) versus cell counts in human CD34⁺ UCB cultured *in vitro* with or without BC treatment for different times ($n=3$). (B,D) MFI values of p-FLT3 Tyr842 (B) and p-cKIT Tyr719 (D) detected by flow cytometry in (A) and (C) ($n=3$). All data are shown as mean $\pm$ SEM. ** $p < 0.01$ (Student's t test).

Supplementary Figure S3



Supplementary Figure S3. The influence of BC administration for consecutive 7 days on periphery blood parameters, spleen and metabolic organs in healthy mice. C57BL/6 mice were i.p. injected with vehicle or BC (10 or 20 mg/kg) for 7 days (once a day) and then sacrificed 24 hours after last injection. (A) Body weights ($n=5$). (B-D) WBC (B), RBC (C) and PLT (D) counts in mouse periphery blood ($n=5$). (E) spleen weights ($n=5$). (F-I) Gross picture and histological analysis by HE staining of liver (F and G) and kidney (H and I) tissues. Scale bar: 50 μ m. (J) Quantitation analysis of white pulp number of spleen in figure 5B ($n=3$). All data error bars are shown as mean $\pm$ SEM, ns, no significance (Student's t test).

Supplementary Figure S4



Supplementary Figure S4. The effects of BC administration on the survival of mice with 5-FU cycle injection. Control: mice were i.p. injected with saline once a day for 3 consecutive days and 24h after the last injection, mice were subjected to 5-FU injection. Group a and b: mice were i.p. injected with 10 mg/kg (a) or 20 mg/kg (b) BC once a day for 3 consecutive days and 24h after the last injection, mice were subjected to 5-FU injection. Group c and d: mice were i.p injected with 10 mg/kg (c) or 20 mg/kg (d) BC once, simultaneously with the first injection of 5-FU. Group e and f: mice were i.p. injected with 10 mg/kg (e) or 20 mg/kg (f) BC once, 24h after the first 5-FU injection. For 5-FU injection, 150mg/kg 5-FU were i.p. injected once every 7 days (arrows indicate the day of injection). 12 mice per group.