Supporting Information

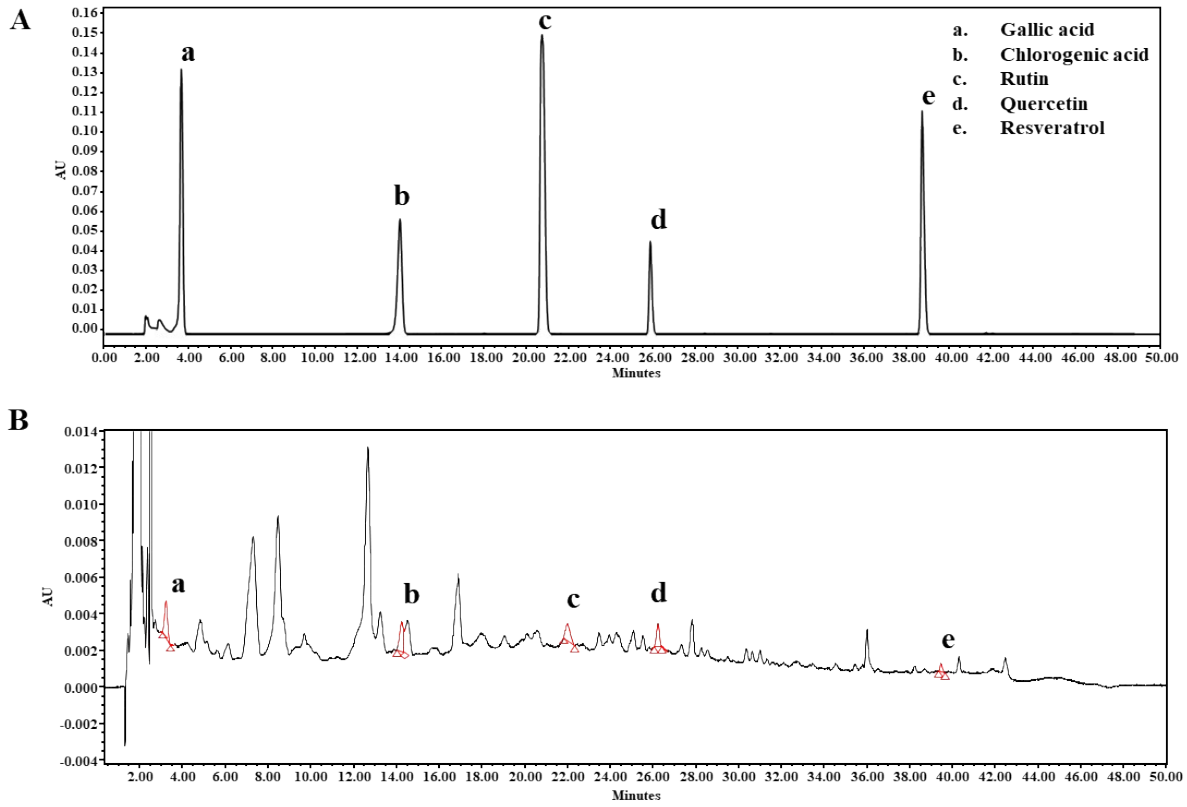

Fig. S1. Chromatograms of standard compounds (gallic acid, chlorogenic acid, rutin, quercetin, and resveratrol, A) and FBBBR (B). Amounts of gallic acid, chlorogenic acid, rutin, quercetin, and resveratrol were analyzed using HPLC with a water/3% acetic acid (solvent A) and methanol (solvent B) gradient system at UV 285 nm.

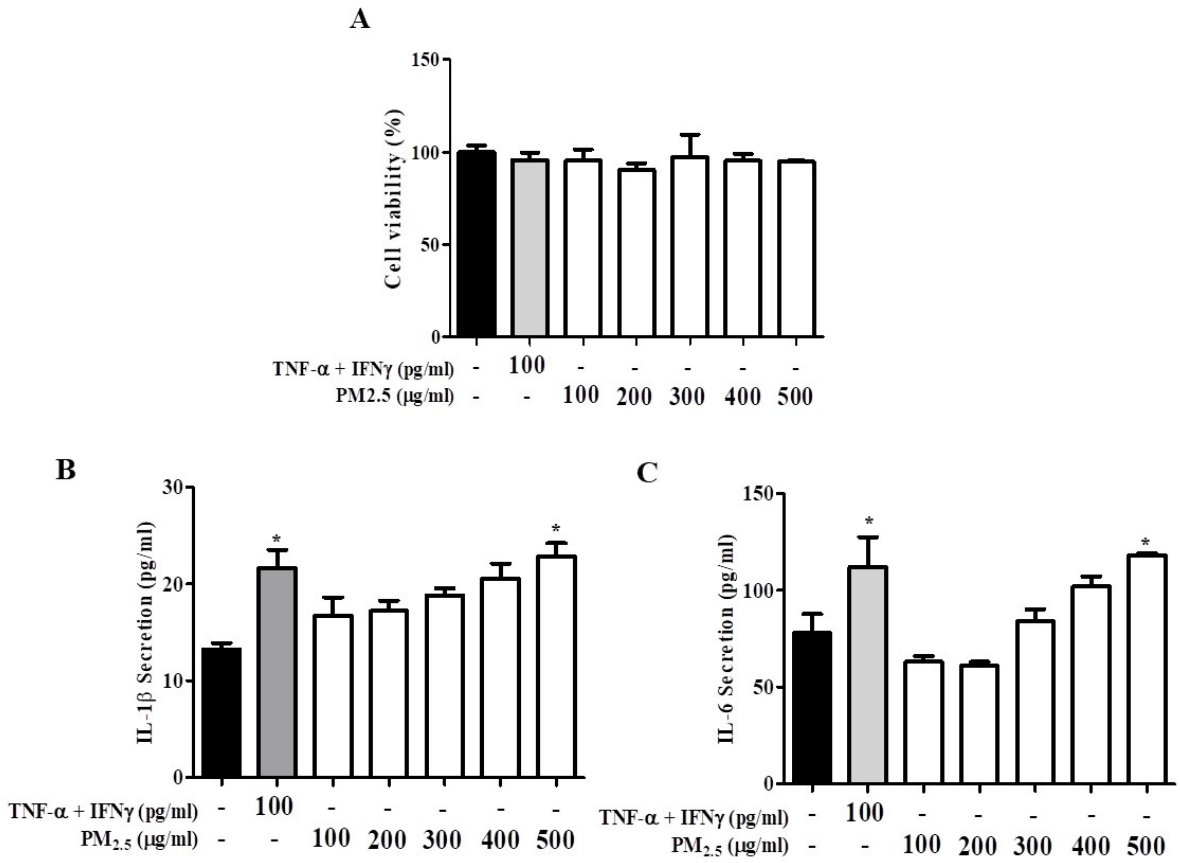

Fig. 2S. Effect of $PM_{2.5}$ extract on cell viability and proinflammatory cytokine production (IL-1β and IL-6) in HaCaT cell. HaCaT cells (3×10^4/well) were pre-treated with various concentrations of $PM_{2.5}$ extract for 6 h. (A) Cell viability of $PM_{2.5}$ extract. (B) The levels of IL-1β production (C) The levels of IL-6 production. $^*P < 0.05$ vs. untreated group. Values represent mean ± SEM (n = 3).

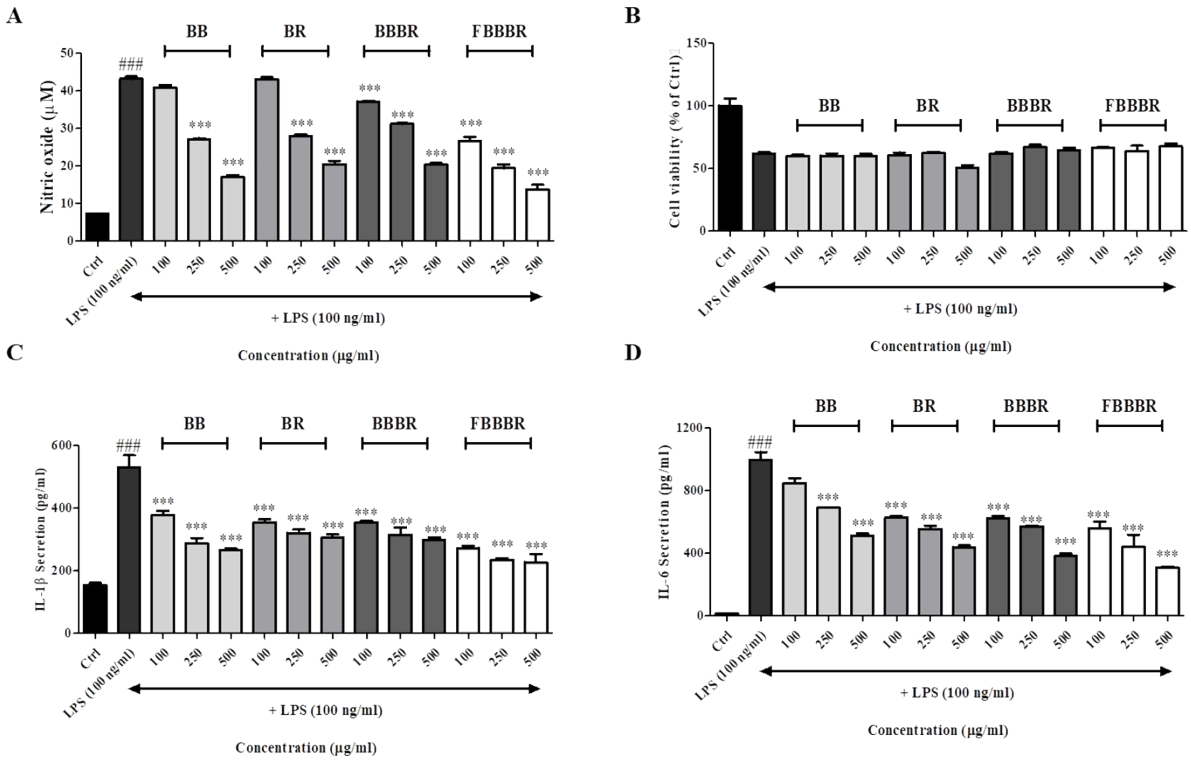

Fig. 3S. Effect of BB, BR, BBBR, and FBBBR on cell viability, nitric oxide (NO) production, and proinflammatory cytokine production (IL-1β and IL-6) in RAW 264.7 macrophage cell. (A) Effects of BB, BR, BBBR, and FBBBR on cell viability. (B) Inhibitory effect of BB, BR, BBBR, and FBBBR on $PM_{2.5}$ extract-induced NO production. (C) Inhibitory effect of BB, BR, BBBR, and FBBBR on $PM_{2.5}$ extract-induced IL-1β production. (D) Inhibitory effect of BB, BR, BBBR, and FBBBR on $PM_{2.5}$ extract-induced IL-6 production. Values represent mean ± SEM (n = 3).

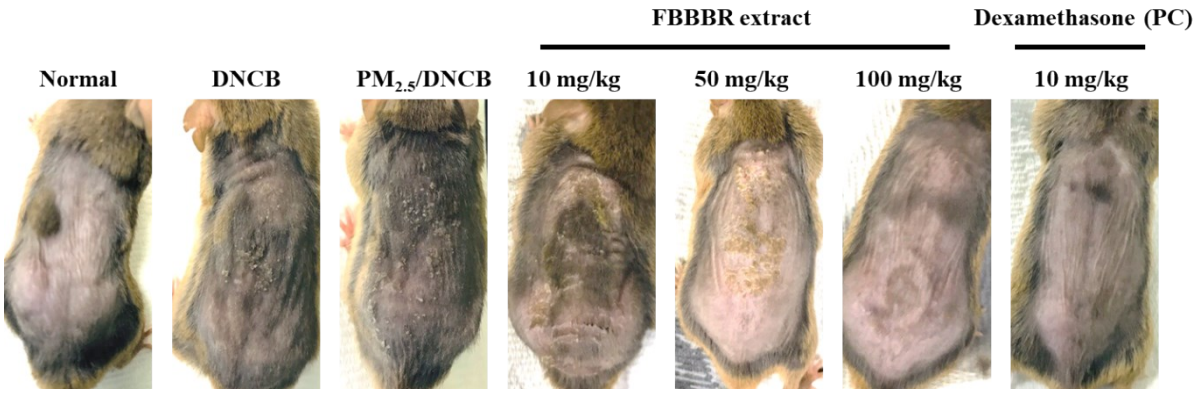

Fig. 4S. The morphological changes of mice at the end of the animal experiments.

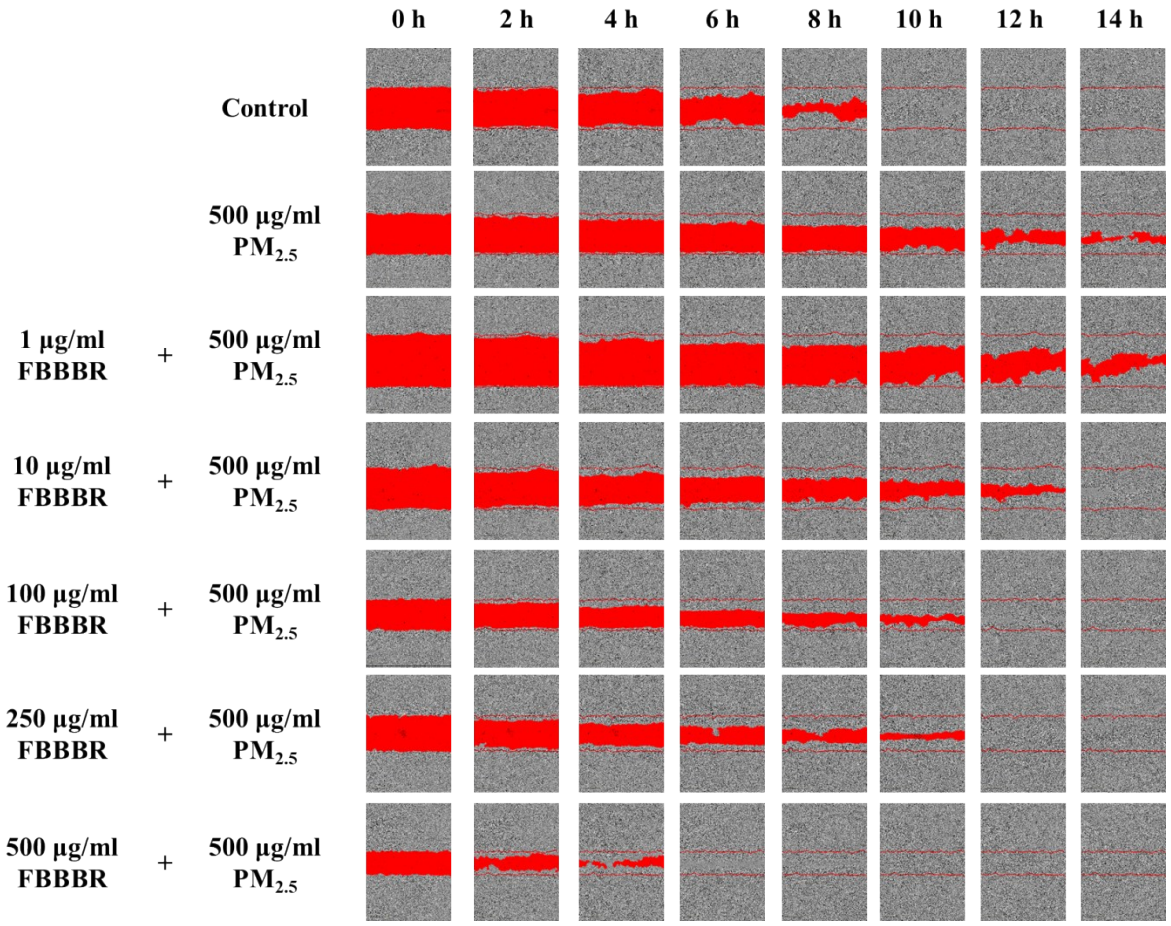

Fig. 5S. Effect of FBBBR on *in vitro* scratched wound healing in the HaCaT cell assay. HaCaT cells were seeded (5×10^5 cells/well) into 96-well plates and cultured as a monolayer to confluence overnight. Monolayers of cultured cells were subjected to scratch wounds with a Wound Maker tool (Essen Bioscience, Ann Arbor, MI). The injured cells were pre-treated with various concentrations of FBBBR (1, 10, 100, 250, and 500 µg/mL) in 96-well plates and then treated with $PM_{2.5}$ extract. IncuCyte ZOOM (Essen Bioscience) was used to inspect cultures every 2 hours.