Supplementary materials

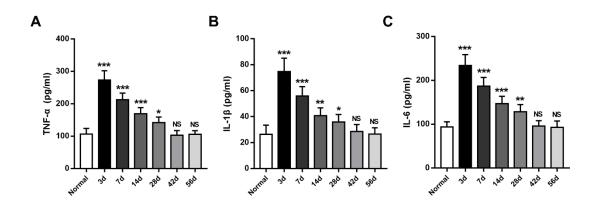


Figure S1. Quantification of cytokines. (A) TNF- α , (B) IL-1 β , and (C) IL-6 expression levels increased in the BLM-treated groups, and the highest expression was observed in the 3d group. Data are expressed as the mean \pm SD. n = 6. NS, no significant difference; *P < 0.05; **P < 0.01; ***P < 0.001.

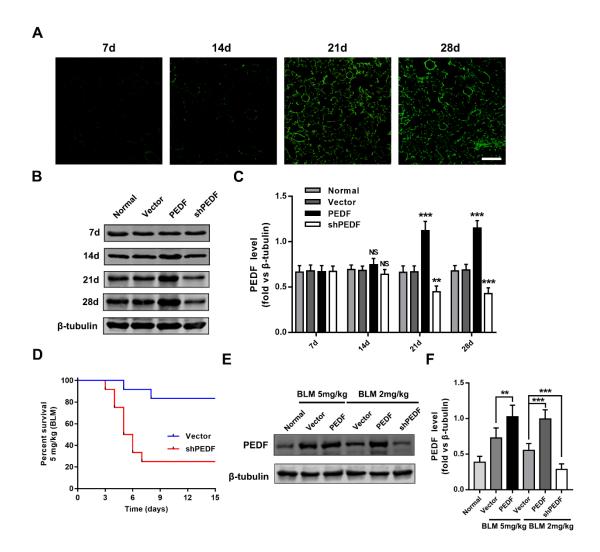


Figure S2. PEDF expression level in rats. (A) Representative GFP expression images were shown. Both the blank AAVs and PEDF-AAVs were constructed and labeled with GFP. The lungs were harvested from referential time point. bar=200 μ m. (B) and (C) Western blot to detect the transfection efficiency of AAVs (PEDF-AAV or PEDF-siRNA-AAV). Data are expressed as the mean \pm SD, n = 6. (D) The survival curve of shPEDF rats after exposure to BLM (5 mg/kg). n=12. (E) and (F) 28 days after BLM-exposed, western blot to detect the transfection efficiency of AAVs (PEDF-AAV or PEDF-siRNA-AAV). n=6. NS, no significant difference; **P < 0.01; ***P < 0.001.

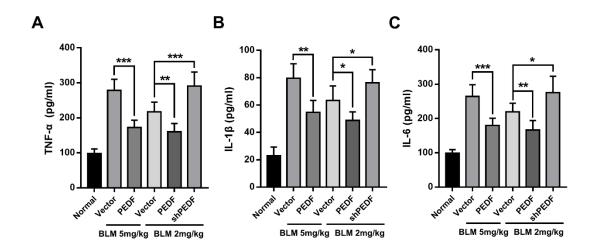


Figure S3. PEDF could inhibit BLM-induced inflammatory response. Quantification of (A) TNF- α , (B) IL-1 β , and (C) IL-6 expression levels of the BALF from the experimental group and AAV treatment group (3 days after BLM-exposed). Data are expressed as the mean \pm SD, n = 6, *P < 0.05; **P < 0.01; ***P < 0.001.

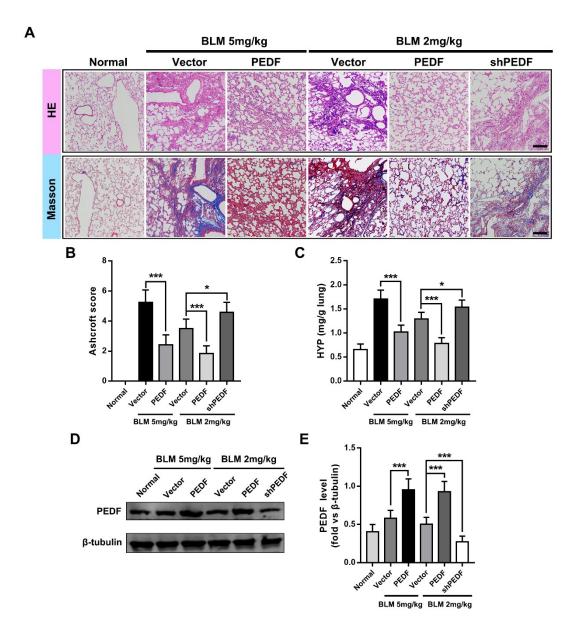


Figure S4. Delayed intervention of PEDF could also inhibit collagen deposition. (A) Representative images of the H&E and Masson-stained cross-section of the lung from the experimental group and delayed treatment group (42 days after BLM-exposed). Bar = $200\mu m$. (B) The Ashcroft score among multiple groups. (C) Quantification of hydroxyproline content in lung tissue of each group. Data are expressed as the mean \pm SD, n = 6, *P < 0.05; ***P < 0.001. (D) and (E) 42 days after BLM-exposed, western blot to detect the transfection efficiency of AAVs (PEDF-AAV or PEDF-siRNA-AAV). n=6. **P < 0.01; ***P < 0.001.

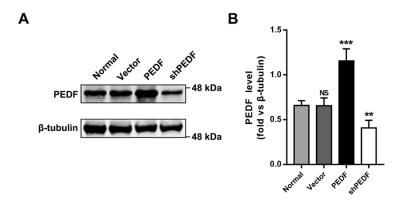


Figure S5. PEDF expression level in RPL fibroblasts. (A) and (B) Western blot to detect the transfection efficiency of LVs (PEDF-LV or PEDF-siRNA-LV). Data are expressed as the mean \pm SD, n = 4, NS, no significant difference; **P < 0.01; ***P < 0.001.