

Supplementary figure

Figure S1: Results of coimmunostaining for F4/80 (red) and CD206 (green) in saline-treated or BLM-induced mice. The images were taken at $\times 200$ magnification. Each bar represents the mean \pm SEM of 6 mice analyzed. ***P < 0.001.

Figure S2: A: The *in vitro* biocompatibility of siRNA-loaded liposomes was evaluated by CCK8 assay. **B:** Western blot analysis of the transfection efficacy of siRNA targeting *Sart1* in liposomes transfected in RAW264.7 cells with Lipofectamine 3000. Upper panel: Representative Western blot. Down panel: Figures showing the data from 3 replicates. **P < 0.01.

Figure S3: Overexpression of *Sart1* in BMDMs after pCMV-*Sart1* transfection. Left panel: Representative Western blot result. Right panel: Figures showing the data with from 3 replicates. ***P < 0.001.

Figure S4: Immunofluorescence image for showing the biodistribution of DiR-labelled scramble siRNA-loaded liposomes and *Sart1* siRNA-loaded liposomes in the lungs from of BLM-induced mice.

Figure S5: Histological analysis of the lung tissues of mice after pulmonary administration of saline or liposomes. Images were captured at $\times 200$ magnification.









