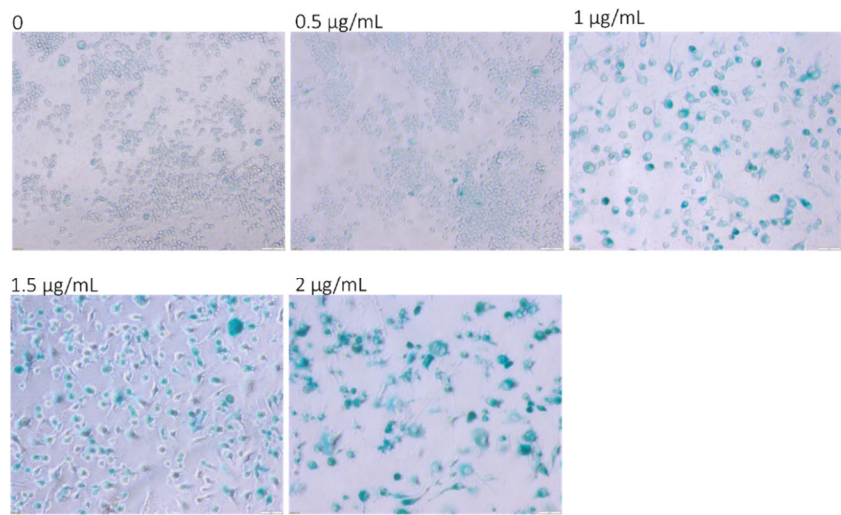


Supplementary Data 1. Bleomycin dose–response optimization. Cells were exposed to increasing concentrations of bleomycin (0–2 $\mu\text{g/mL}$). A concentration of 1 $\mu\text{g/mL}$ consistently induced morphological changes indicative of cellular senescence across independent replicates and was used for all subsequent experiments.



Supplementary Data 2. Full-length uncropped Western blot corresponding to the representative blot shown in Figure 4.

