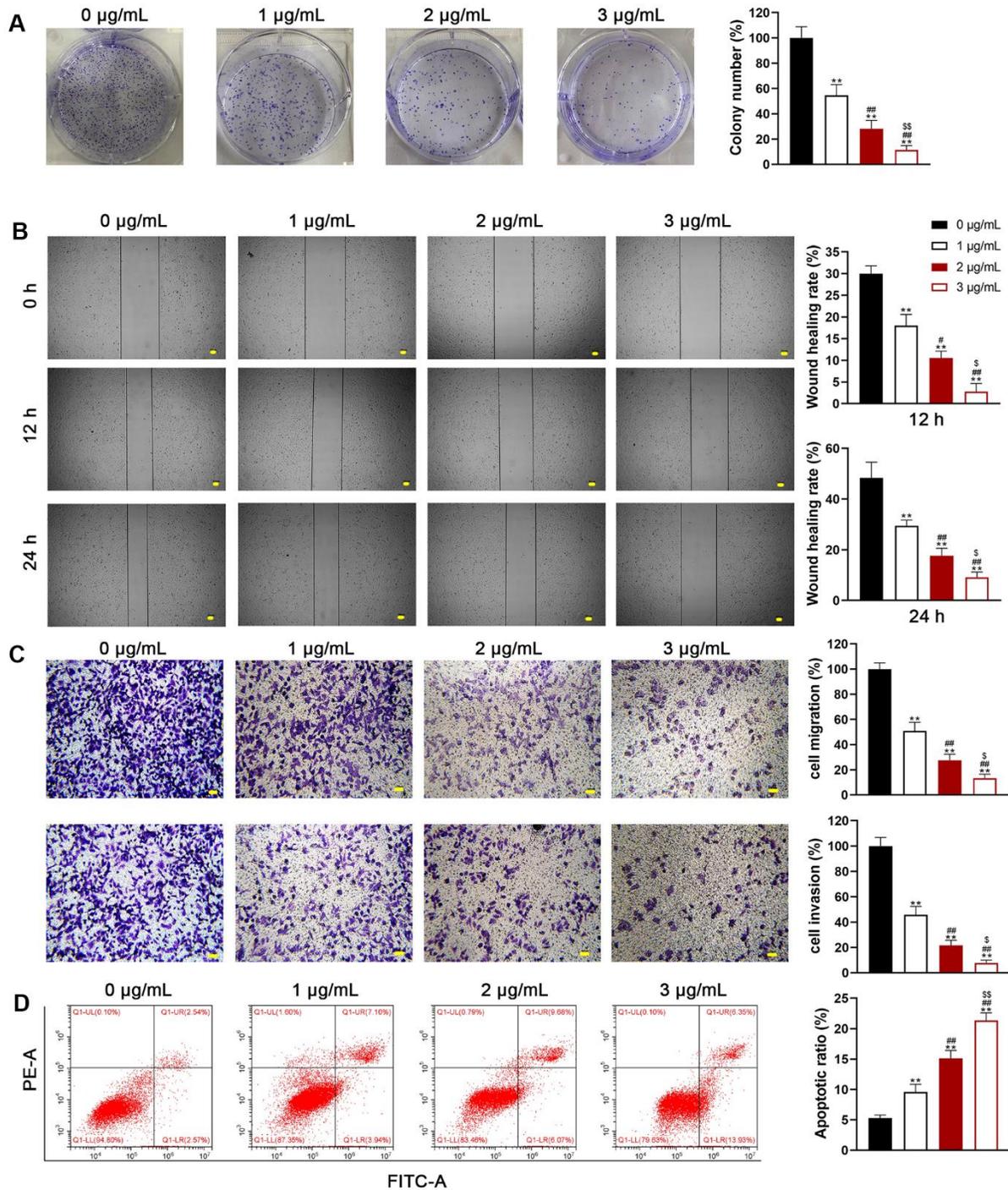
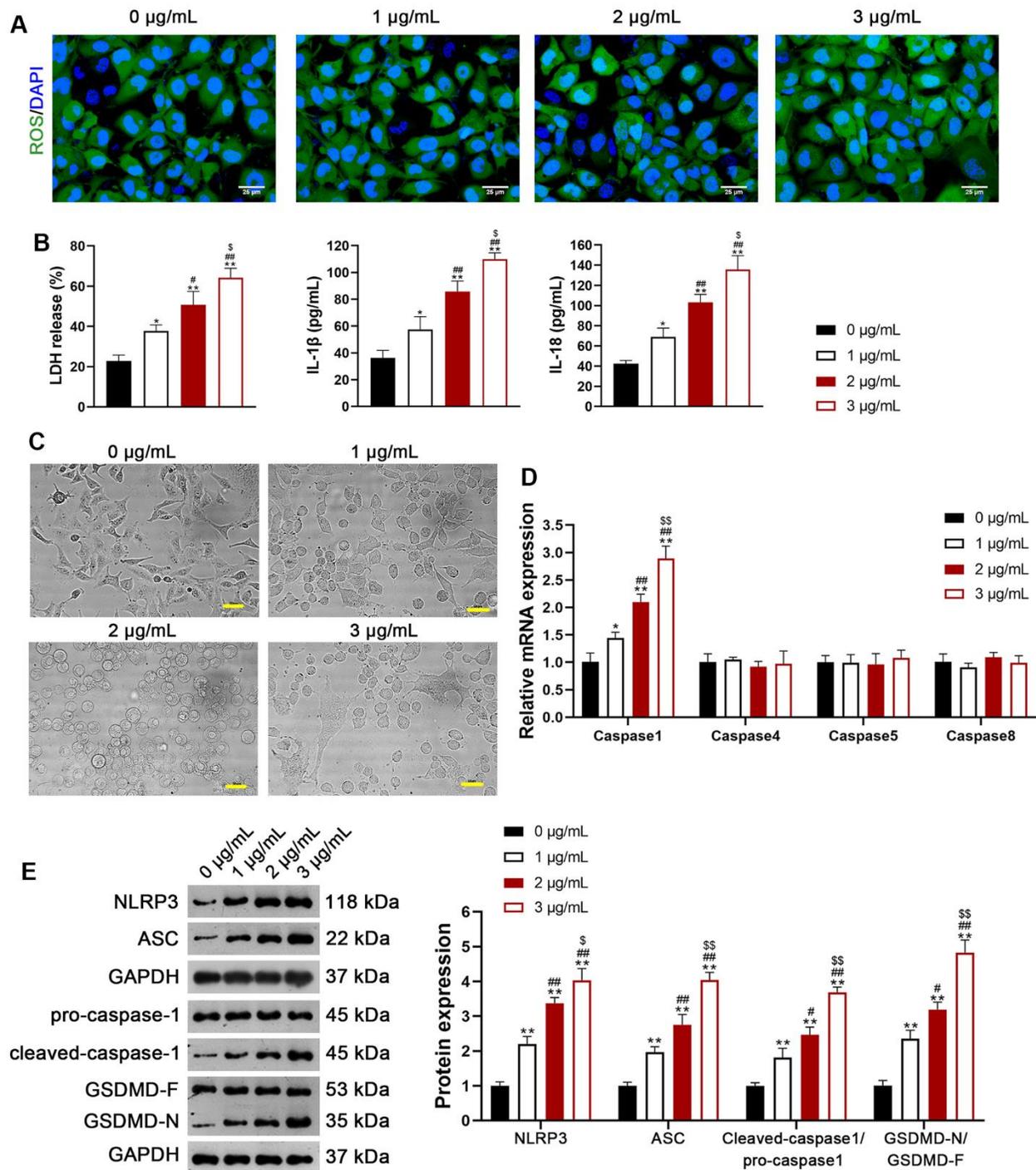


SUPPLEMENTARY FIGURES



**Supplementary Figure 1. Usenaminate A inhibits the proliferation, migration, and invasion of LUAD cells (A549).** (A) Cell proliferation was detected using a colony formation assay. (B) Cell migration was measured using a wound-healing assay. Scale bar = 50 µm. (C) Cell migration and invasion were determined using the transwell assay. Scale bar = 50 µm. (D) Cell apoptosis was assessed using flow cytometry. \*\* $p < 0.01$  vs. 0 µg/mL usenaminate A; # $p < 0.05$  and ### $p < 0.01$  vs. 1 µg/mL usenaminate A; \$ $p < 0.05$  and \$\$ $p < 0.01$  vs. 2 µg/mL usenaminate A.



**Supplementary Figure 2. Usenamine A induces NLRP3/caspase-1/GSDMD-mediated pyroptosis in LUAD cells (A549).** (A) Levels of ROS in the cells were detected using a DCFH-DA probe. Scale bar = 25 µm. (B) LDH, IL-1β, and IL-18 levels in the cells were measured using commercial ELISA kits. (C) Representative morphological images of cells obtained by microscopic examination. Scale bar = 50 µm. (D) Relative expression of caspase-1, -4, -5, and -8 was analyzed using RT-qPCR. (E) Relative protein expression of NLRP3/caspase-1/GSDMD pathway-related proteins was measured using western blotting. \* $p < 0.05$  and \*\* $p < 0.01$  vs. 0 µg/mL usenamine A; # $p < 0.05$  and ## $p < 0.01$  vs. 1 µg/mL usenamine A; § $p < 0.05$  and §§ $p < 0.01$  vs. 2 µg/mL usenamine A. GSDMD, gasdermin D; LUAD, lung adenocarcinoma; NLRP3, NOD-like receptor pyrin 3; RT-qPCR, reverse transcription-quantitative PCR.