

Supplementary Figure 1

K1

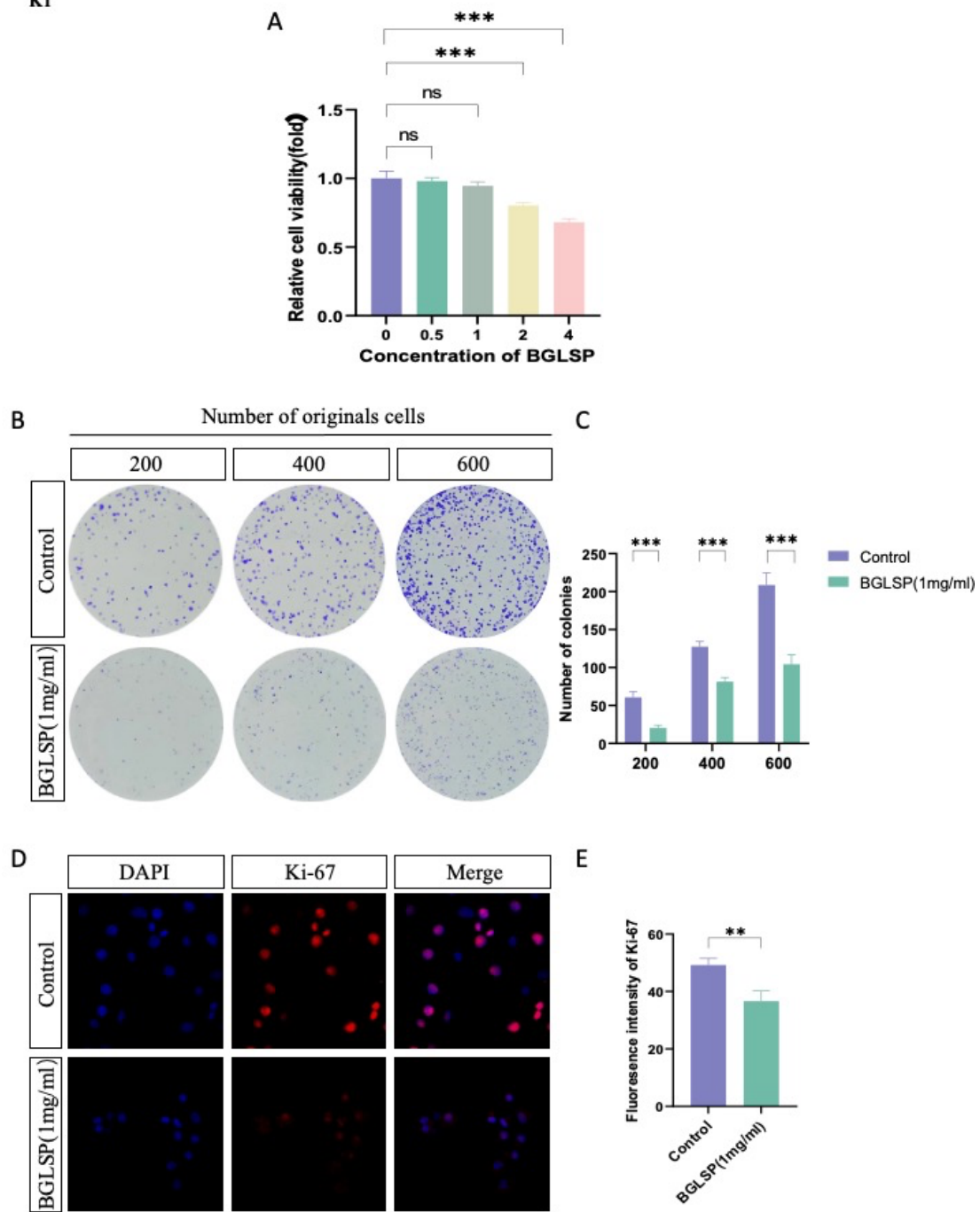


Figure S1. Anti-proliferative effects of BGLSP on K1 cells in vitro. (A) Dose-dependent effects of BGLSP (0.5, 1, 2, and 4 mg/ml, 24h) on K1 cell viability assessed by CCK-8 assay. (B, C) Colony formation capacity of K1 cells treated with 1 mg/ml BGLSP at different seeding densities (200, 400, 600 cells/well). (D, E) Immunofluorescence staining of Ki-67 (400x) proliferation marker in K1 cells following 1 mg/ml BGLSP treatment (24h), scale bar: 50µm. Data represent mean ± SD. **P<0.01, ***P<0.001.

Supplementary Figure 2

KTC-1

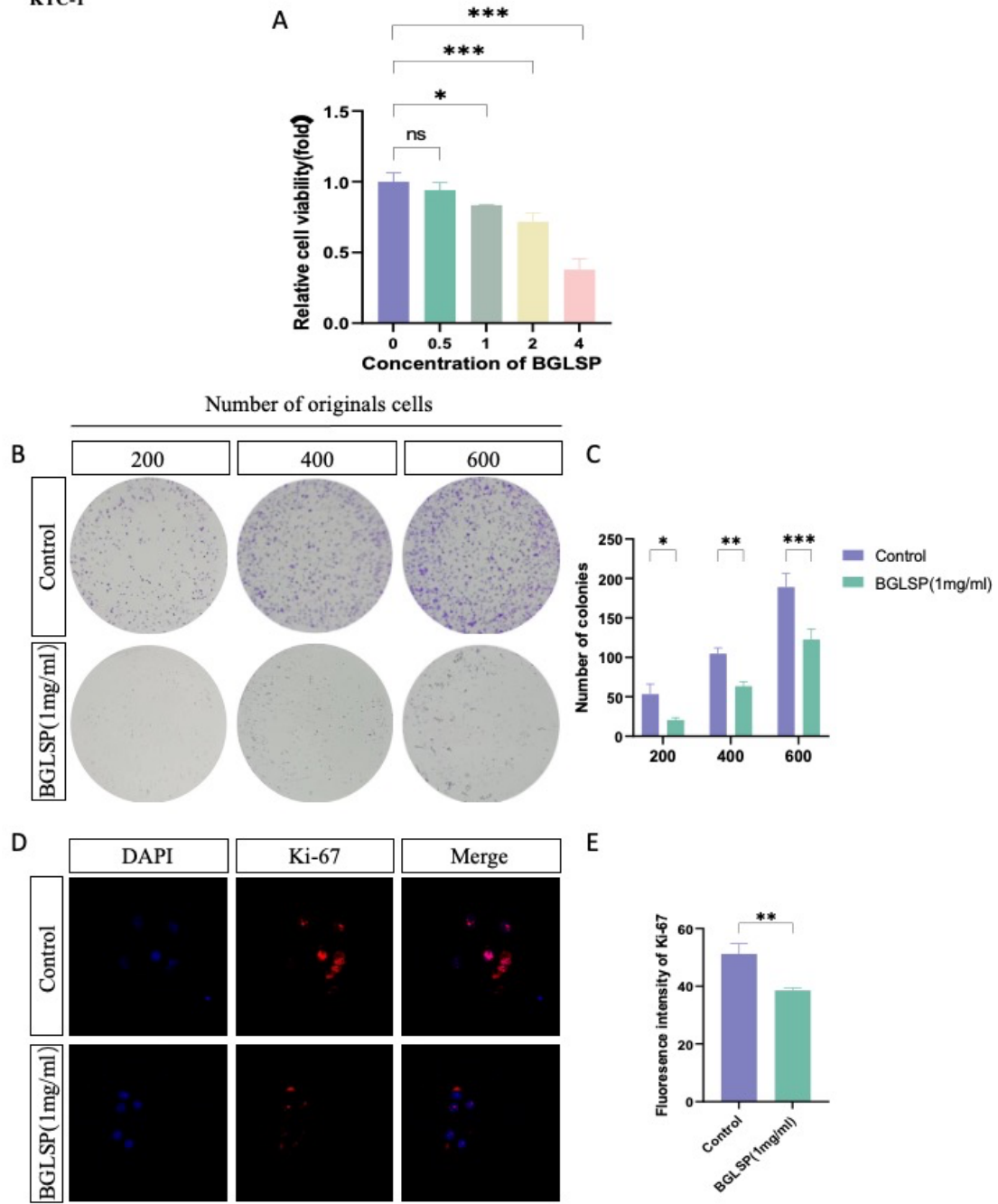


Figure S2. Anti-proliferative effects of BGLSP on KTC-1 cells in vitro. (A) Dose-dependent effects of BGLSP (0.5, 1, 2, and 4 mg/ml, 24h) on KTC-1 cell viability assessed by CCK-8 assay. (B, C) Colony formation capacity of KTC-1 cells treated with 1 mg/ml BGLSP at different seeding densities (200, 400, 600 cells/well). (D, E) Immunofluorescence staining of Ki-67 (400x) proliferation marker in KTC-1 cells following 1 mg/ml BGLSP treatment (24h), scale bar: 50 μ m. Data represent mean \pm SD. *P<0.05, **P<0.01, ***P<0.001.

Supplementary Figure 3

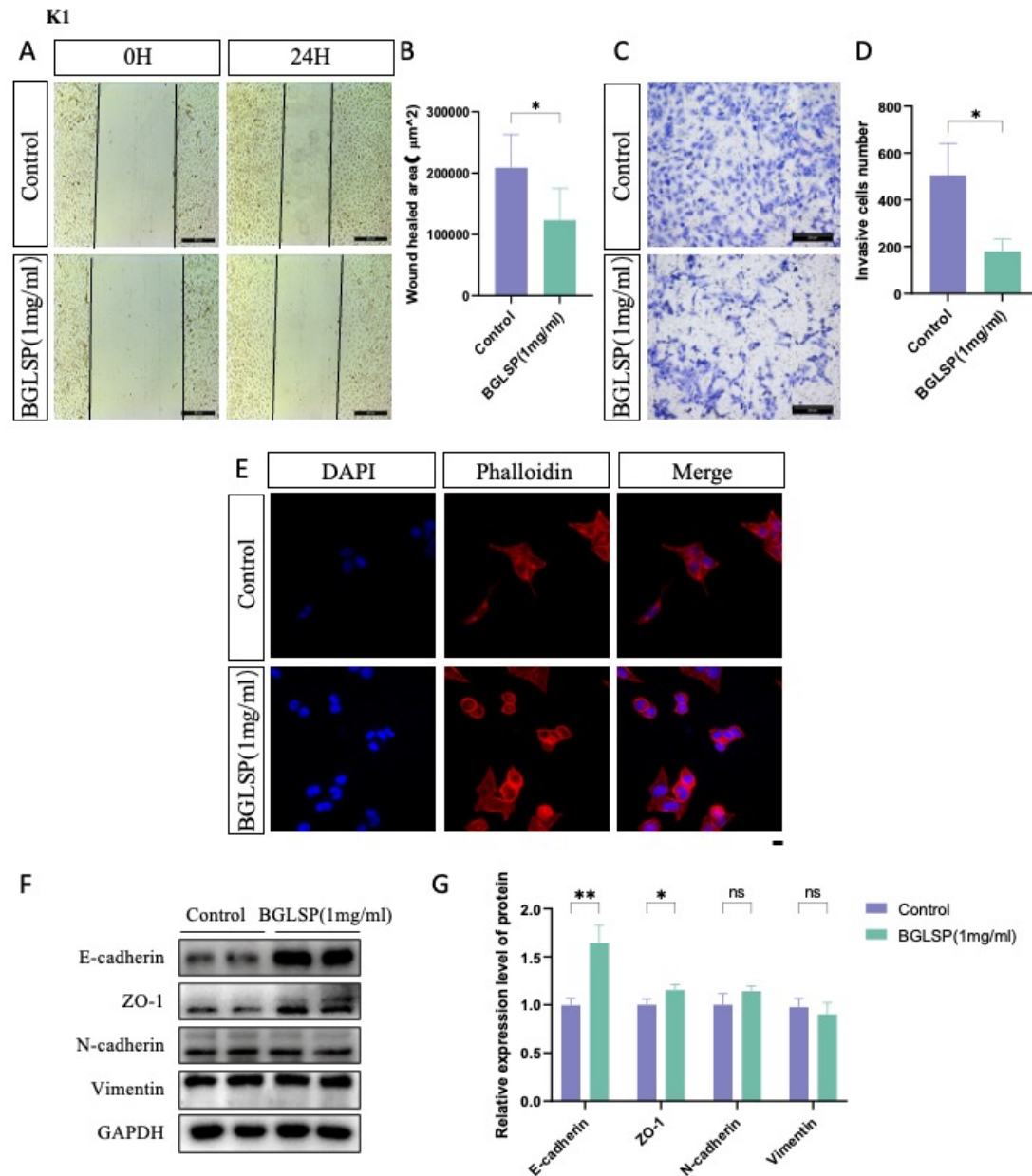


Figure S3. Anti-migratory effects of 1 mg/ml BGLSP on K1 cells for 24h. (A, B) Wound healing assay (100x), scale bar: 500 μm . (C, D) Transwell invasion assay (100x), scale bar: 200 μm . (E) Cytoskeletal fluorescence assay (400x), scale bar: 50 μm . (F, G) Western blot analysis of EMT-related markers. Data represent mean \pm SD.

* $P < 0.05$, ** $P < 0.01$.

Supplementary Figure 4

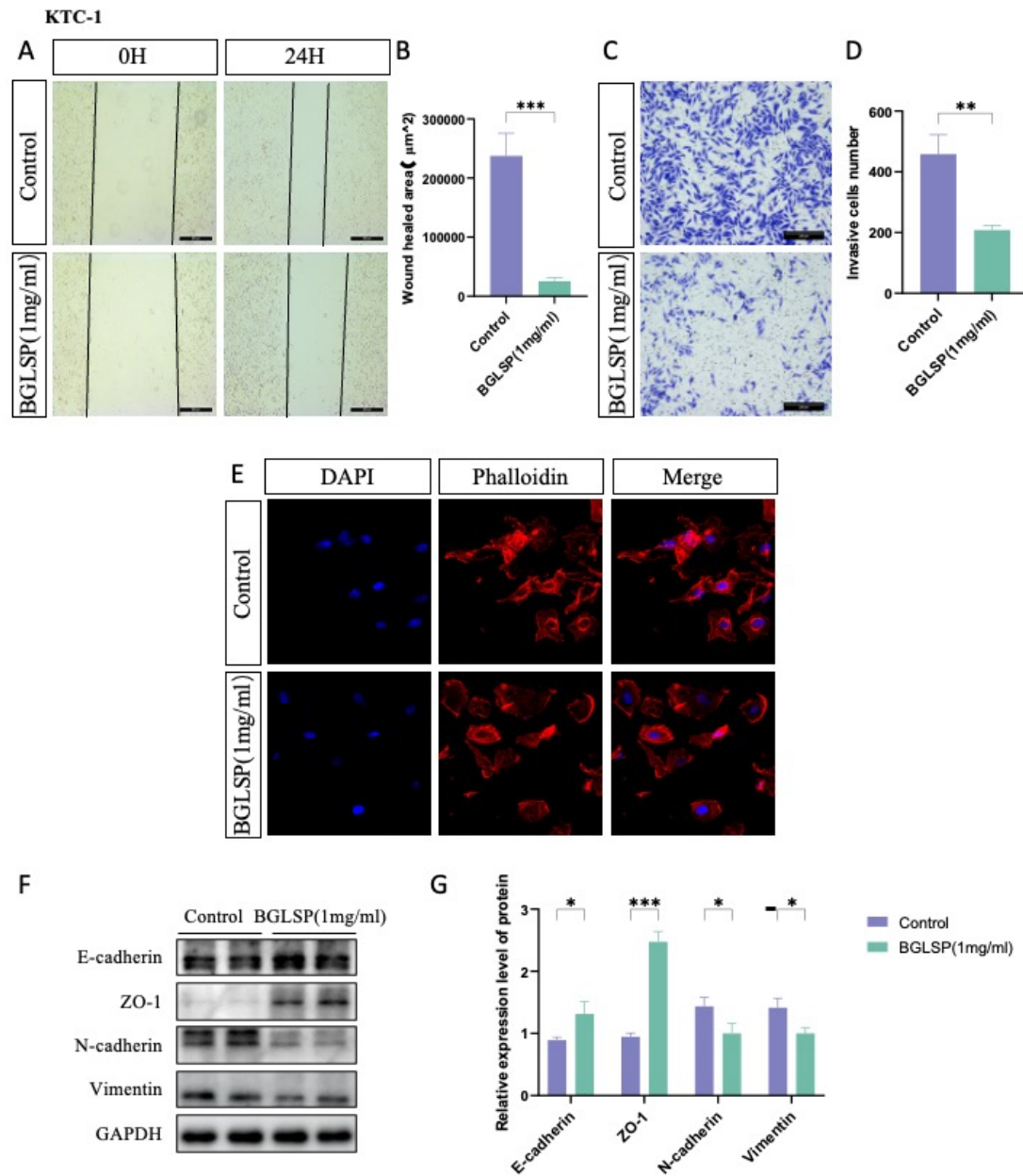


Figure S4. Anti-migratory effects of 1 mg/ml BGLSP on KPC-1 cells for 24h. (A, B) Wound healing assay (100x), scale bar: 500μm. (C, D) Transwell invasion assay (100x), scale bar: 200μm. (E) Cytoskeletal fluorescence assay (400x), scale bar: 50μm. (F, G) Western blot analysis of EMT-related markers. Data represent mean ± SD. *P<0.05, **P<0.01, ***P<0.001.

Supplementary Figure 5

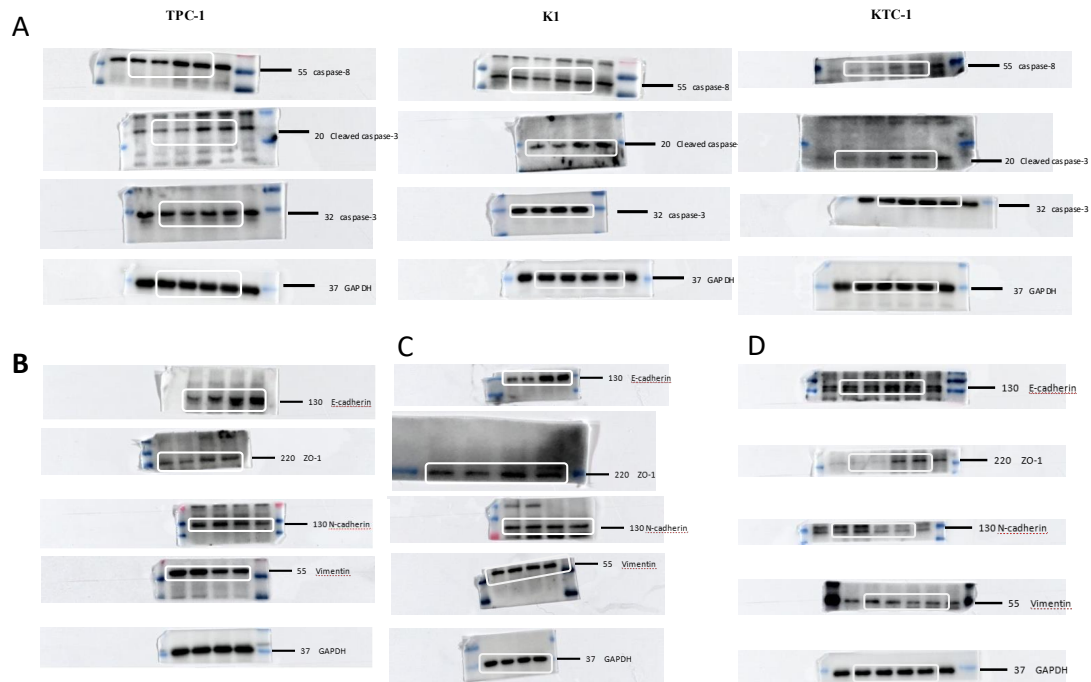


Figure S5. original blot. (A) The original blot in Figure 2 B, E, H. (B) The original blot in Figure 2. (C) The original blot in Figure S3. (D) The original blot in Figure S4.