Supplementary materials

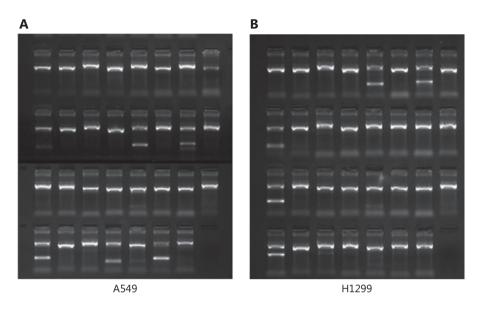


Figure S1 Agarose gel electrophoresis for the HLA-A subtype of H1299 and A549 cell line. (A–B) Agarose gel electrophoresis showing the HLA-A subtype of the A549 cell line (A) and the HLA-A subtype of H1299 cells (B).

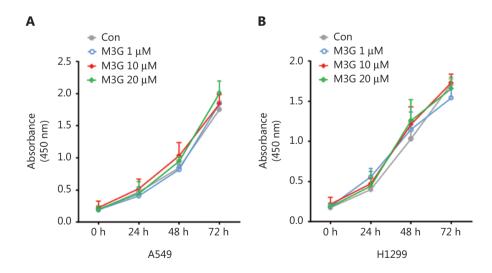


Figure S2 Morphine-3-glucuronide **(**M3G) does not change the viabilities of A549 and H1299 cells. (A–B) Treatment with increasing concentrations of M3G ($1\,\mu$ M, $10\,\mu$ M, and $20\,\mu$ M) does not affect the viability of A549 cells (A) and H1299 cells (B) after 24, 48, and 72 h of co-culture. Data indicate the mean \pm SEM. Repeated-measures two-way analysis of variance with Bonferroni's post hoc test.

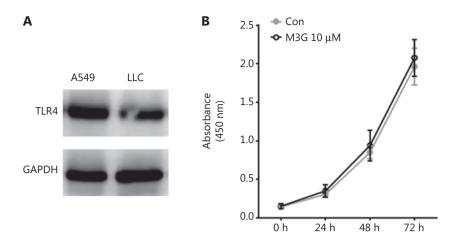


Figure S3 High expression of toll-like receptor 4 (TLR4) in LLC cells. (A) Western blot showing the high expression of TLR4 in LLC and A549 cells. (B) Morphine-3-glucuronide (10 μ M) did not affect the viability of LLC cells after 24, 48, and 72 h of co-culture using CCK8 tests; n=3 cultures. Data indicate the mean \pm SEM. Repeated-measures two-way analysis of variance with Bonferroni's post hoc test.