

Figure S1. LOP promotes radiotherapy-induced ferroptosis in SiHa cells. Flow cytometric analysis and quantification of (A) intra-cellular ROS levels and (B) lipid peroxidation (BODIPY-C11) in SiHa cells treated with LOP combined with radiotherapy. (C) mRNA expression levels of SLC7A11 and GPX4 in SiHa cells analyzed by quantitative PCR. (D) Protein expression of SLC7A11 and GPX4 in SiHa cells treated with LOP combined with radiotherapy detected by western blotting. (E) Densitometric semi-quantification of protein bands normalized to the loading control. (F) Transwell migration was evaluated in SiHa cells treated with DMSO vehicle control, R + LOP, R + LOP + Fer-1 (10 μ M), R + LOP + Lip-1 (0.1 μ M) or Erastin (5 μ M) alone as a positive control. Representative micrographs of migratory cells stained with crystal violet (scale bar, 50 μ m) and quantification of migratory cells from three replicates are shown. All data are presented as the mean $\pm$ SD of three independent experiments. Statistical significance was determined by one-way ANOVA. * P <0.05, *** P <0.001, **** P <0.0001. Fer-1, Ferrostatin-1; GPX4, glutathione peroxidase 4; Lip-1, liproxstatin-1; LOP, loperamide; R, radiotherapy; ROS, reactive oxygen species; SLC7A11, solute carrier family 7 member 11.

