

Supplementary Information

Esterase-sensitive cleavable histone deacetylase inhibitor-coupled hyaluronic acid nanoparticles for boosting anticancer activities against lung adenocarcinoma

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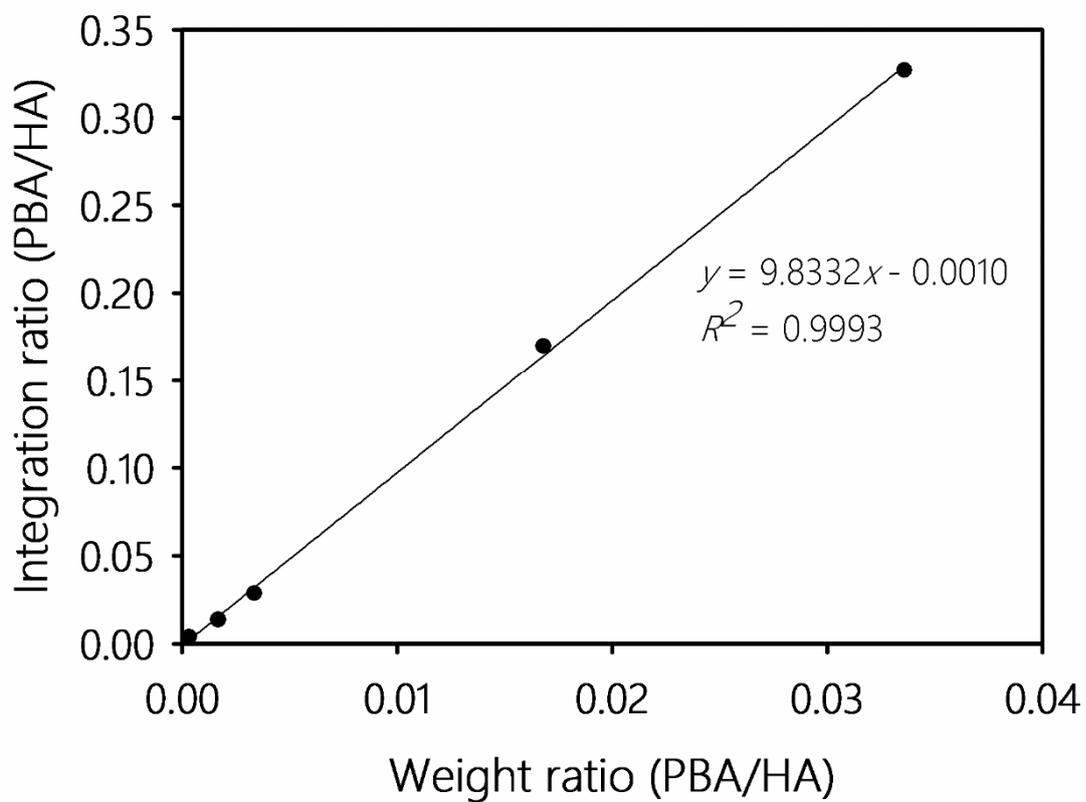


Fig. S1. Regression line of integration ratio (PBA/HA) to weight ratio (PBA/HA).

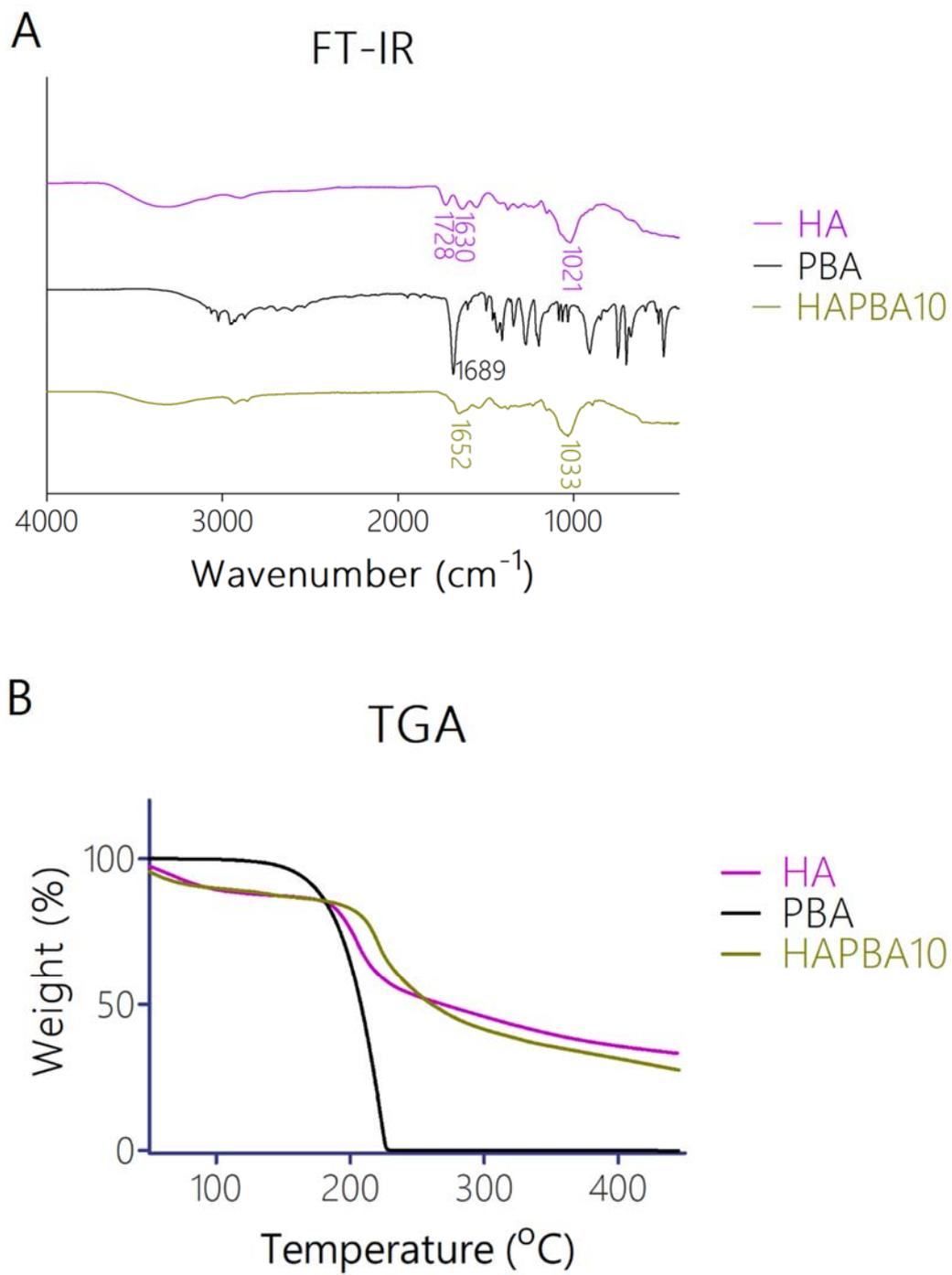


Fig. S2. Characterization of HA, PBA, and HAPBA10 by (A) FT-IR and (B) TGA analyses.

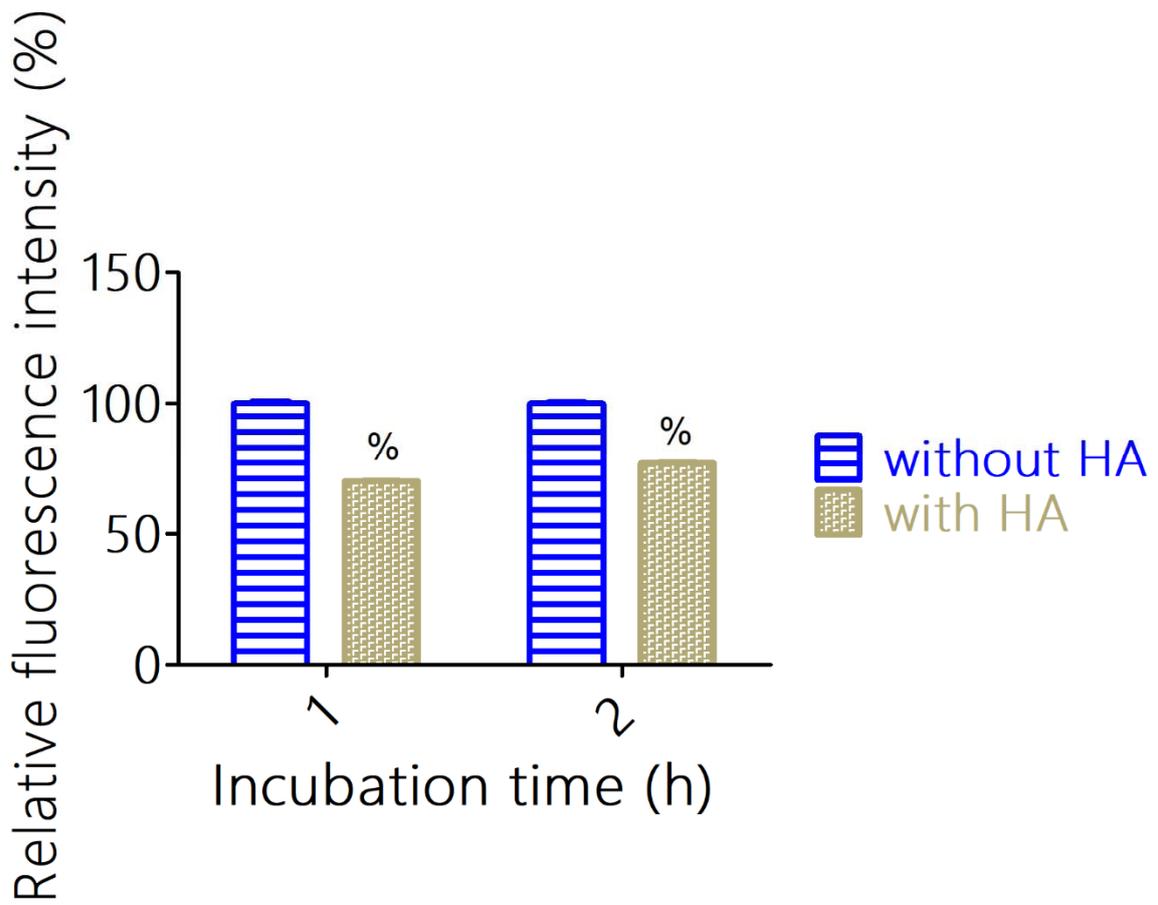


Fig. S3. Influences of HA treatment to the cellular accumulation of Cy5.5-HAPBA10/CUR NPs in A549 cells. Each point represents the mean \pm SD ($n = 3$). $^{\%}p < 0.05$, compared with without HA group.

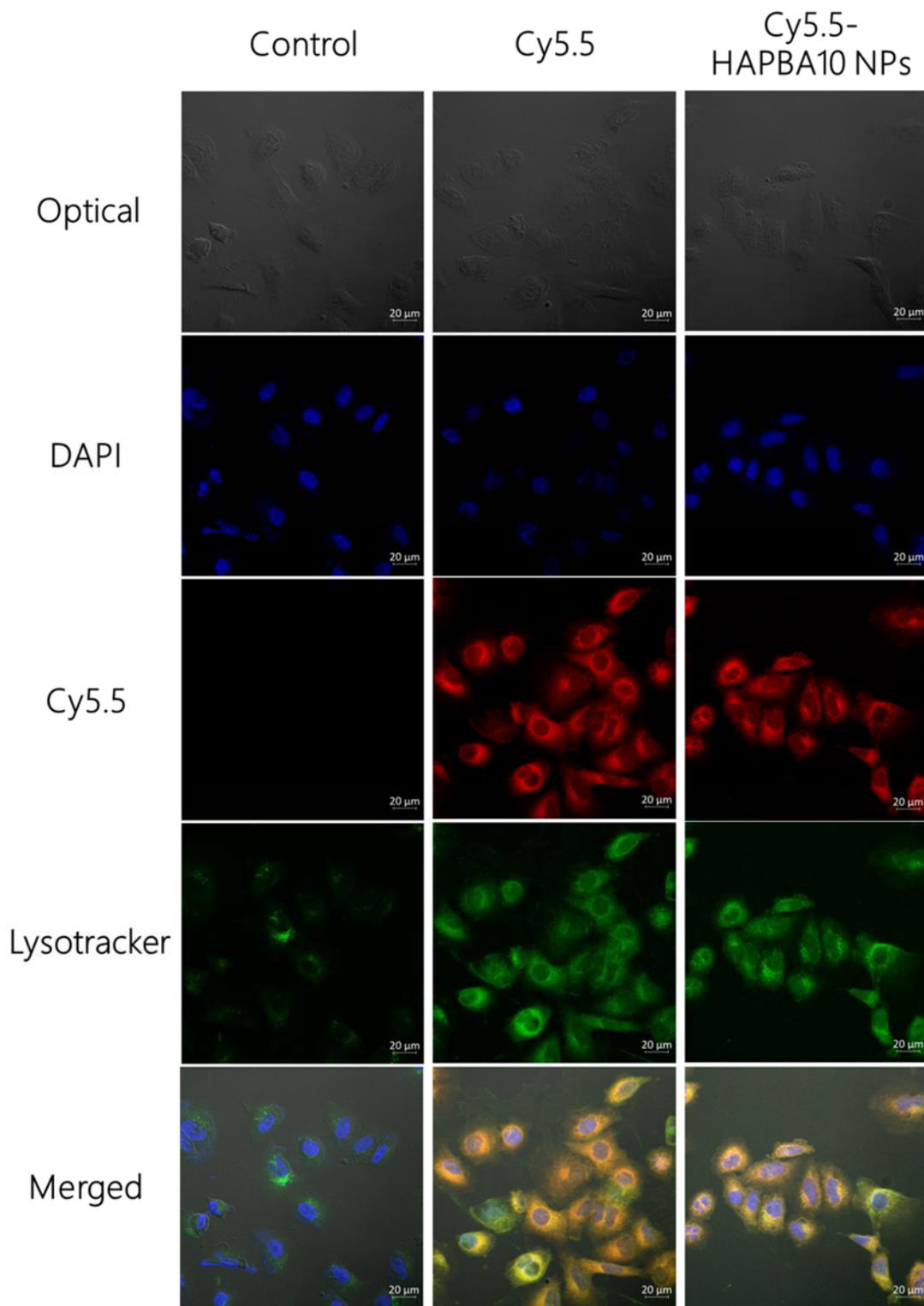


Fig. S4. CLSM images of control, Cy5.5, and Cy5.5-HAPBA10 NPs groups after incubating with Lysotracker. Optical, DAPI, Cy5.5, Lysotracker, and merged images are shown.

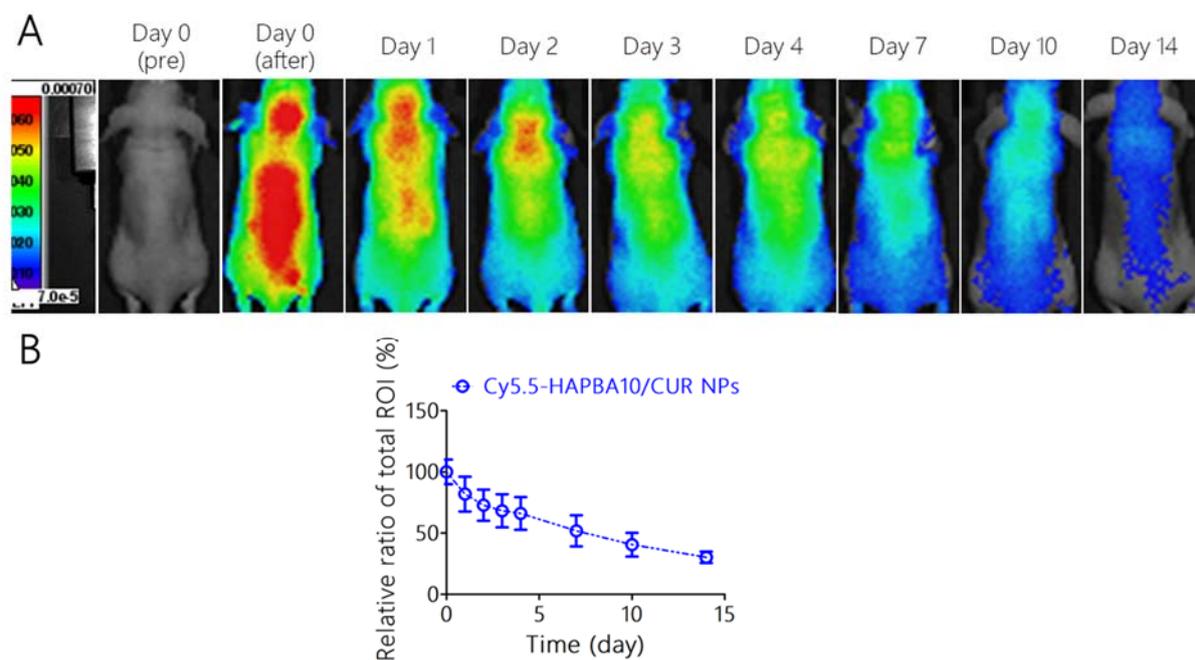


Fig. S5. NIRF signal profiles of Cy5.5-HAPBA10/CUR NPs in normal mouse after intravenous injection. (A) Whole-body scanned NIRF images and (B) time-dependent relative ratio of total ROI values are shown. Each point represents the mean \pm SD ($n = 3$).

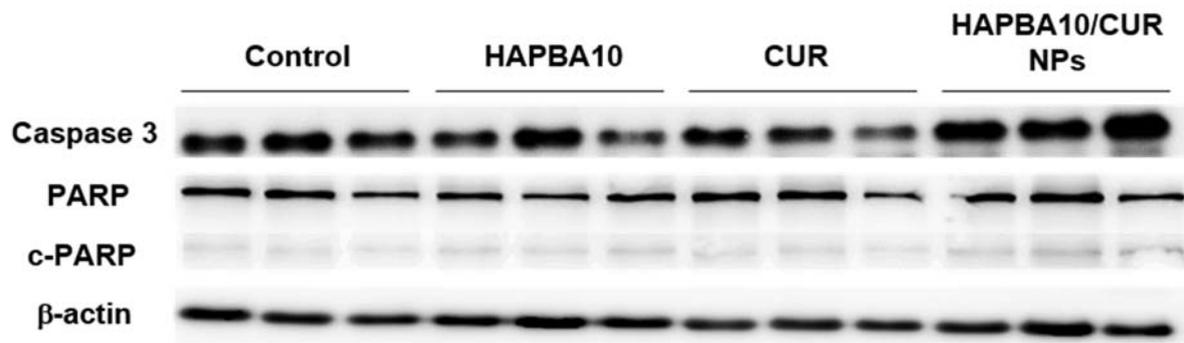


Fig. S6. Western blotting assay for detecting apoptosis-related markers expressed in A549 tumor tissues. Bands of caspase 3, PARP, c-PARP, and β -actin in control, HAPBA10, CUR, and HAPBA10/CUR NPs groups are presented.