Supporting Information

**CD44-targeting oxygen self-sufficient nanoparticles for enhanced photodynamic therapy against malignant melanoma**

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**Figure Legends**

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**Figure S1** Study on drug release of HCINPs.

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**Figure S2** Time-dependent cellular uptake of HCINPs (NP) by MV3 cells measured using CLSM.

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**Figure S3** Targeting effect analysis of HCINPs (NP). MV3 cells were preprocessed by CD44 antibody for 4 h. 16 µg/mL HCINP was then added for another 4 h incubation. Images were taken by inverted fluorescence microscope (200×).

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**Figure S4** Expression of CAIX in tumor tissues (200×).