Electronic Supplementary Information (ESI)

A multifunctional biodegradable brush polymer-drug conjugate for paclitaxel/gemcitabine co-delivery and tumor imaging

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Supporting Figures

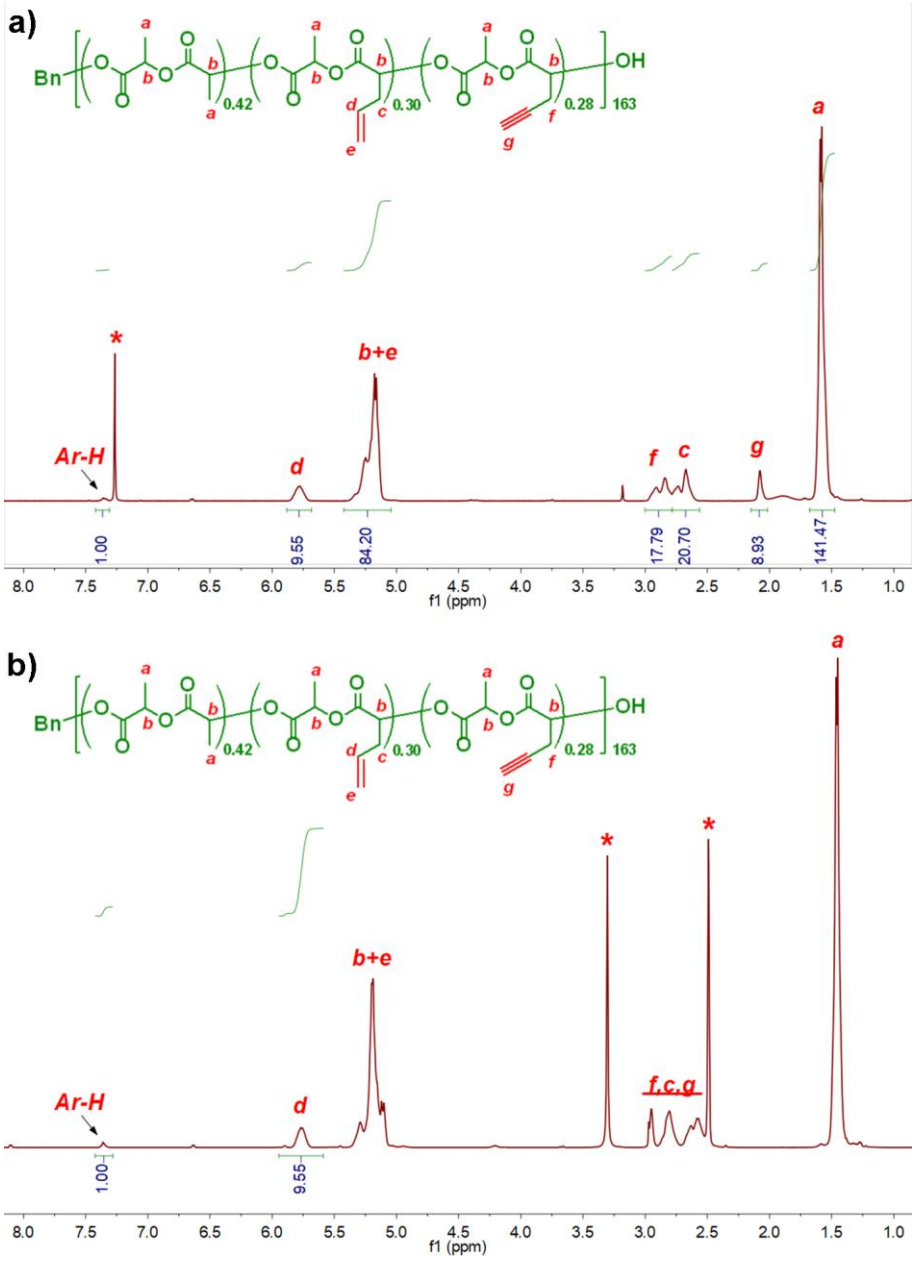

Fig. S1 ^{1}H NMR spectra of acetylenyl/allyl-functionalized **1**: a) in $CDCl_3$, b) in DMSO-d_6.

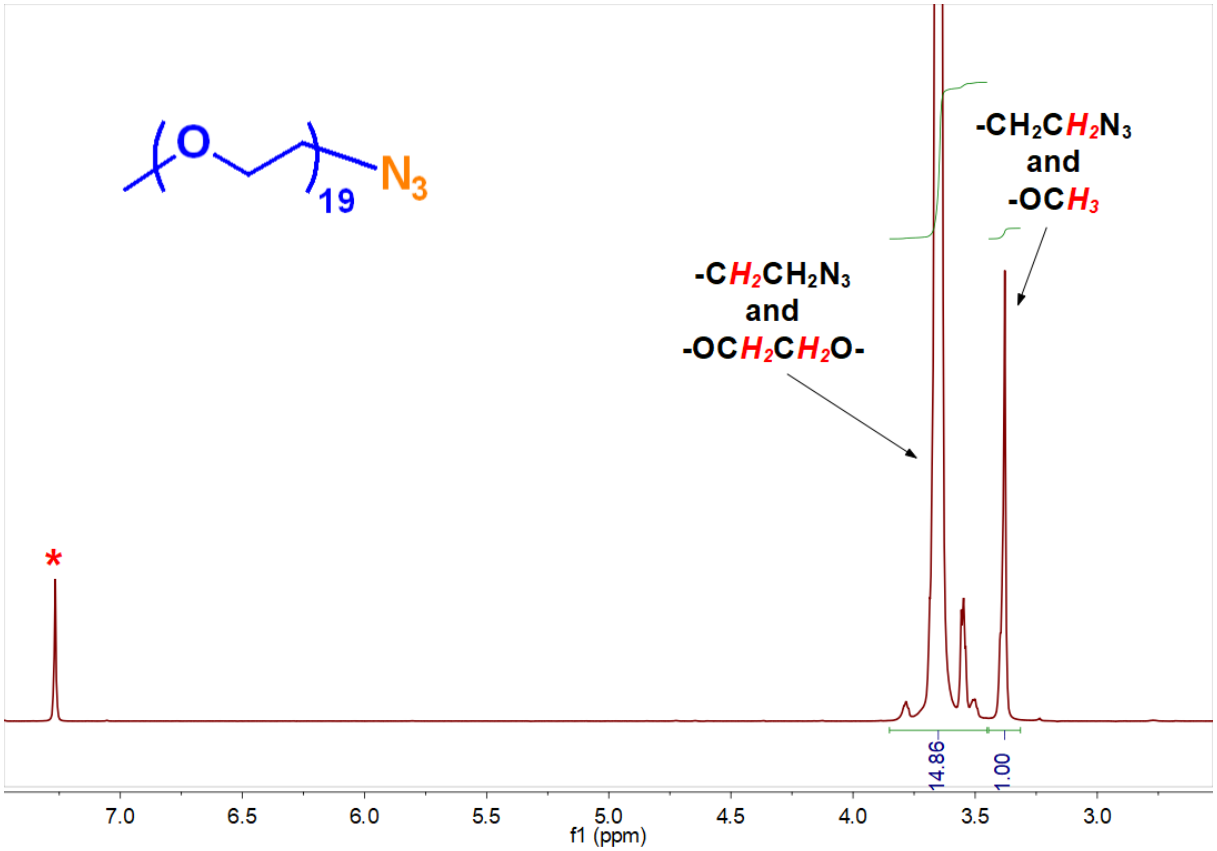

Fig. S2 ^{1}H NMR spectra of CH_3O-PEG-N_3 in $CDCl_3$.

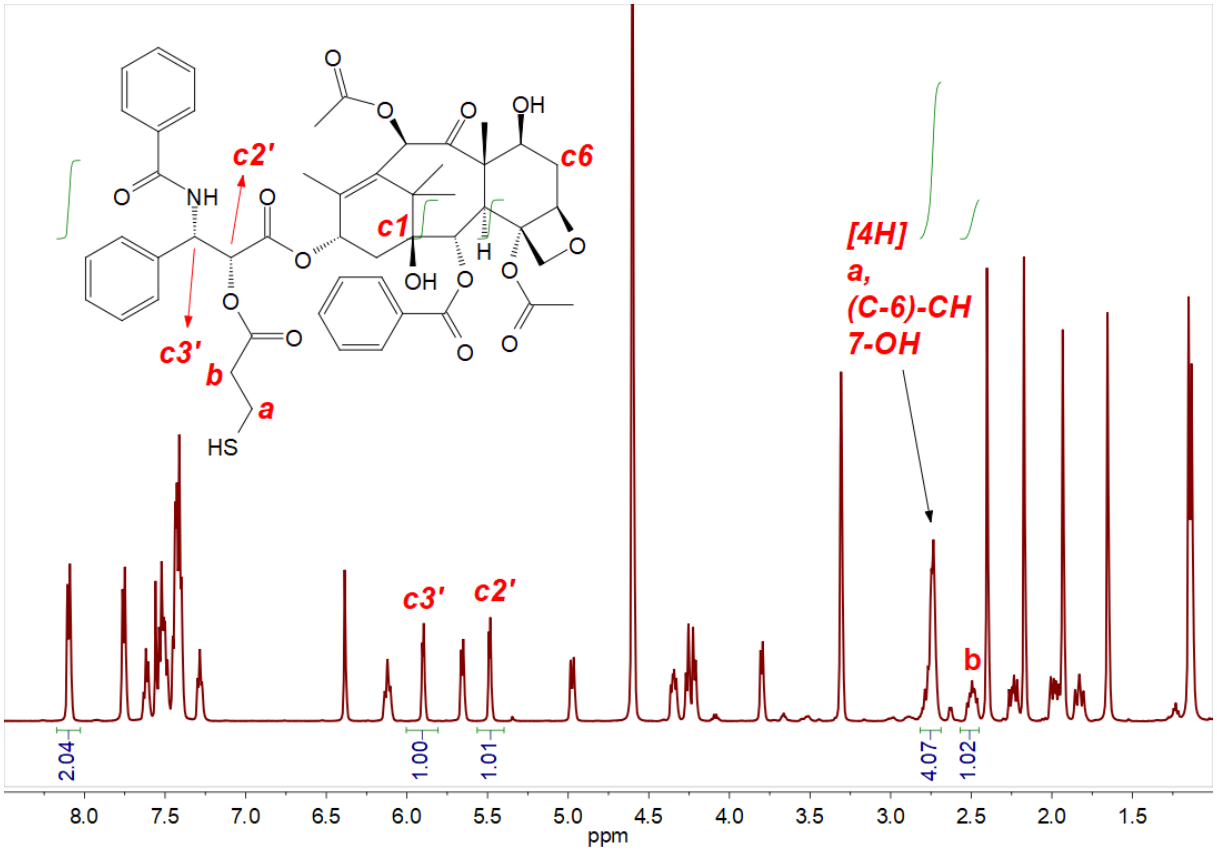

Fig. S3 ^{1}H NMR spectrum of PTX-SH in $CDCl_3/CD_3OD$ (v/v, 1:1).

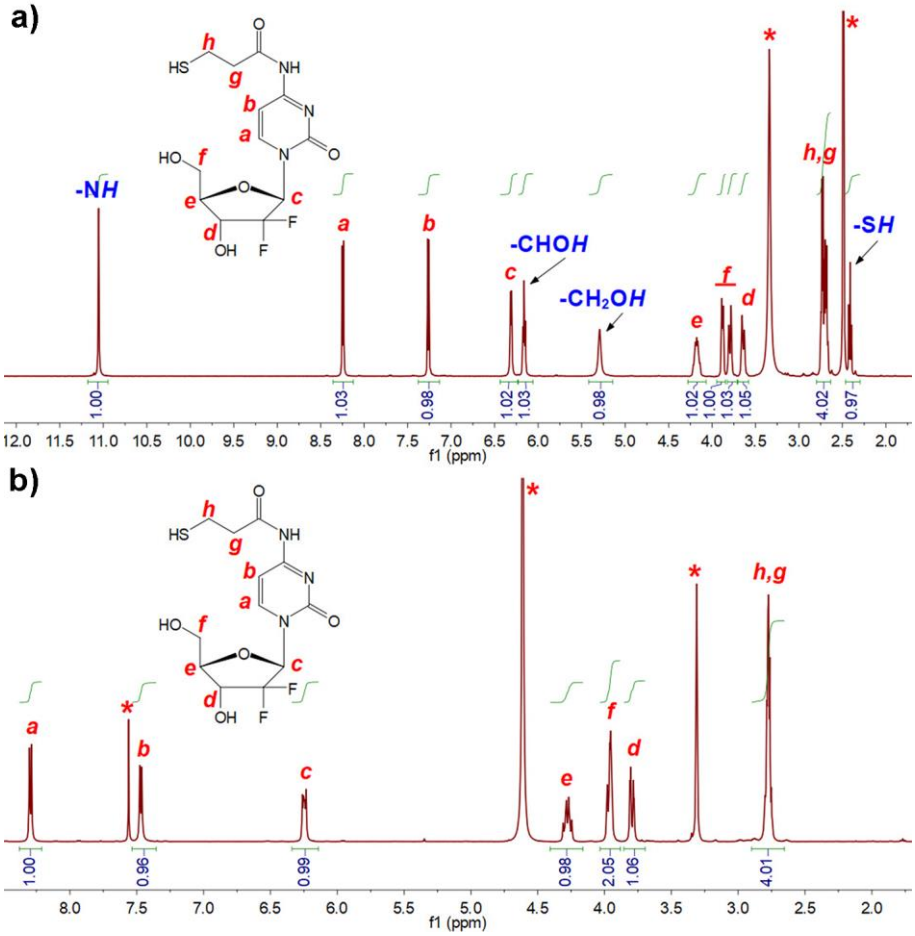

Fig. S4 ^{1}H NMR spectra of GEM-SH in a) DMSO-d_6, b) $CDCl_3$/CD_3OD (v/v, 1:1).

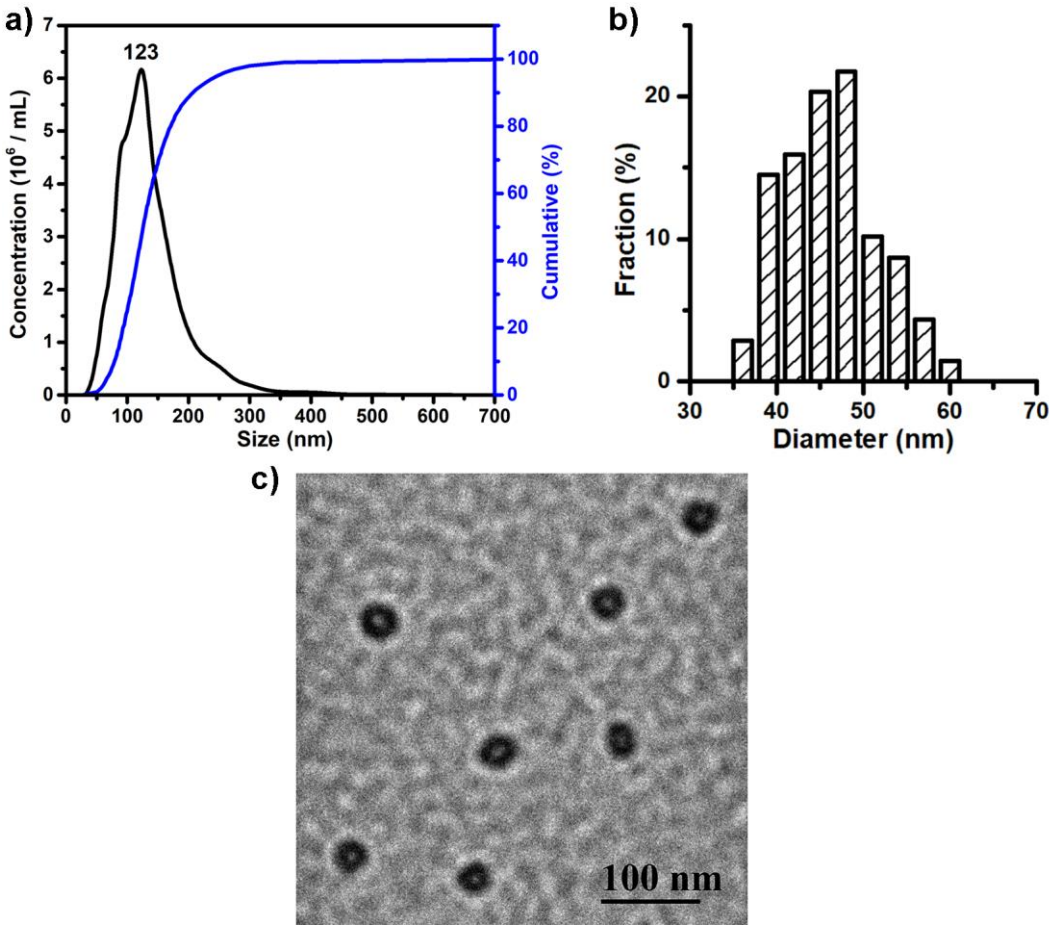

Fig. S5 a) Size distribution profile of BP **2** in H_2O based on NTA measurements. b) Histogram of diameter distribution of BP **2** according to the TEM images. c) TEM images of BP **2**. TEM samples were stained by RuO_4.

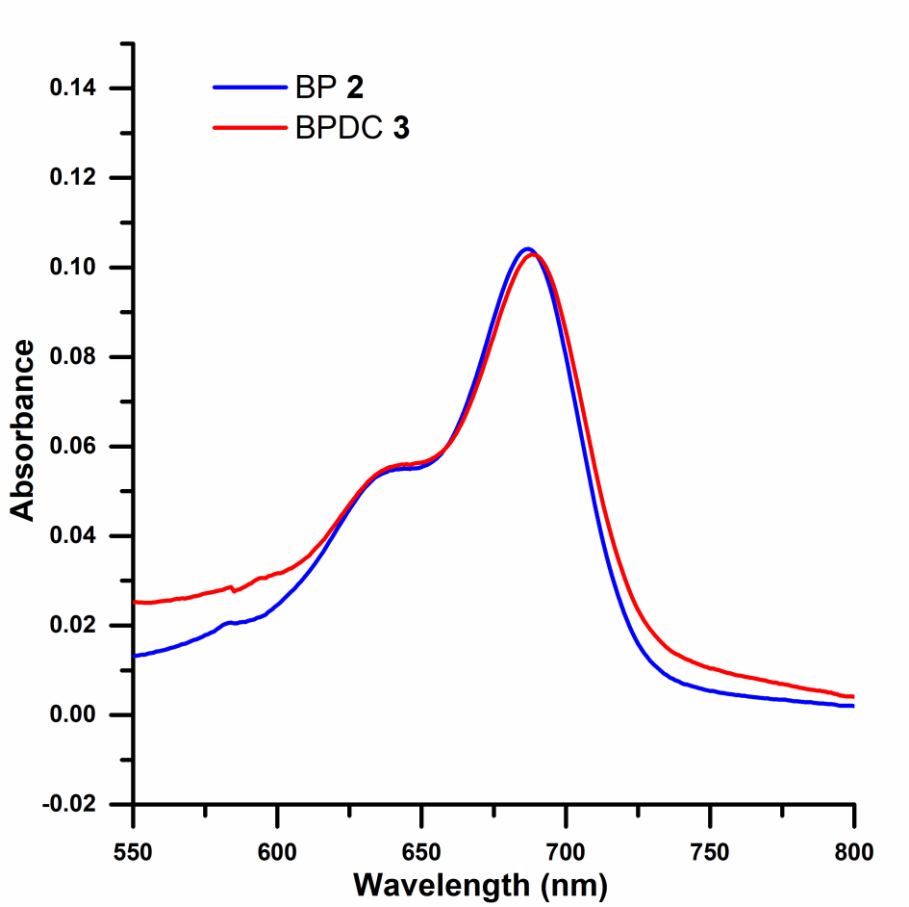

Fig. S6 Absorbance spectra of BP **2** and BPDC **3**.

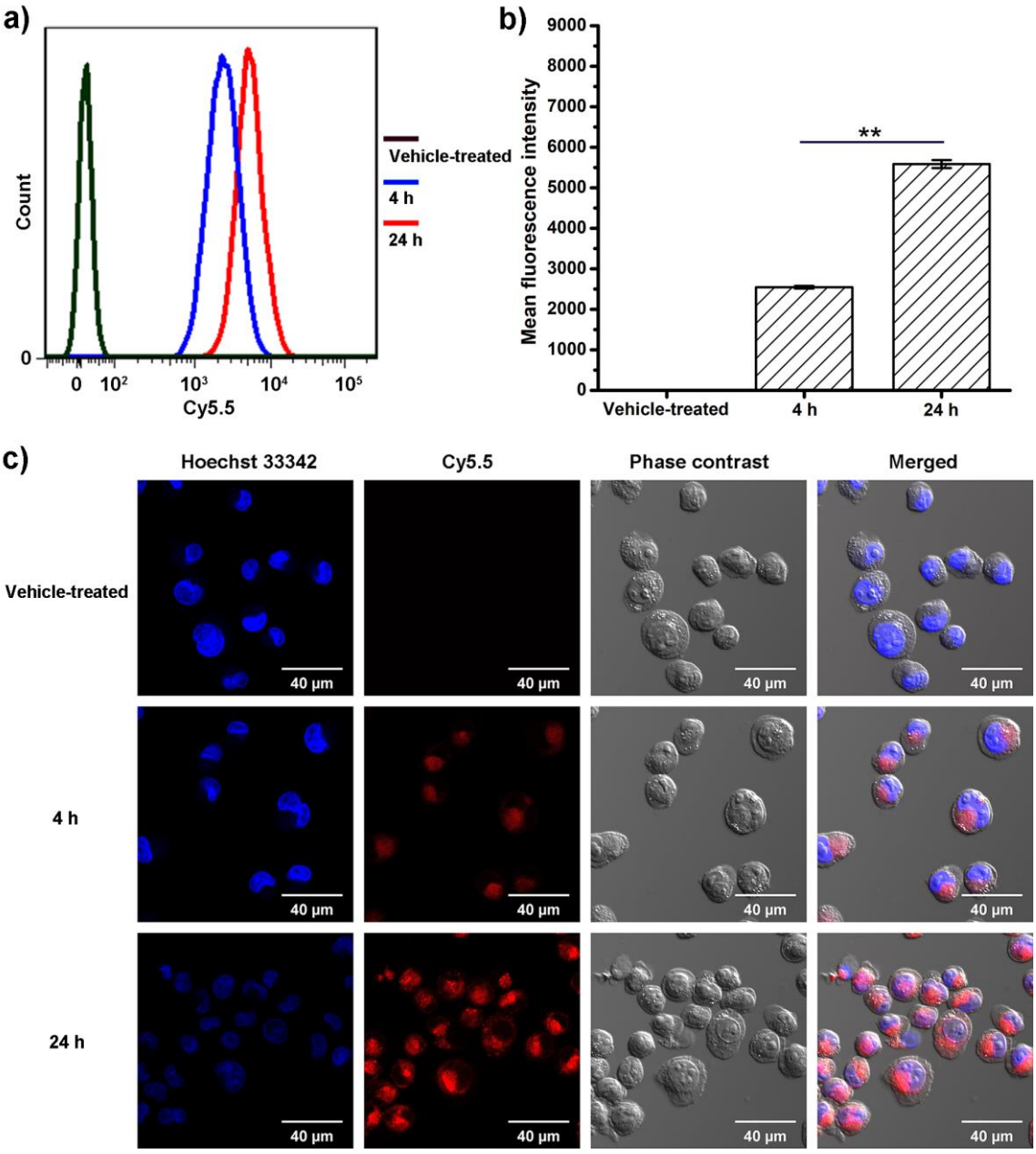

Fig. S7 a) Flow cytometry data showing cellular uptake of BP **2** in MIA PaCa-2 cells at 4 and 24 h post treatment compared with untreated cells. b) Mean fluorescence intensity of Cy5.5 obtained from flow cytometry at 4 and 24 h post treatment. c) Confocal microscopy images of MIA PaCa-2 cells at 4 and 24 h post treatment with BP **2**, compared with untreated cells. Cell nuclei were counterstained with Hoechst 33342. Data were reported as mean ± standard deviation (SD) of three independent experiments. One-way ANOVA was used to assess the statistical significance of the data. $^{**}p < .01$ was considered as statistical highly significant.