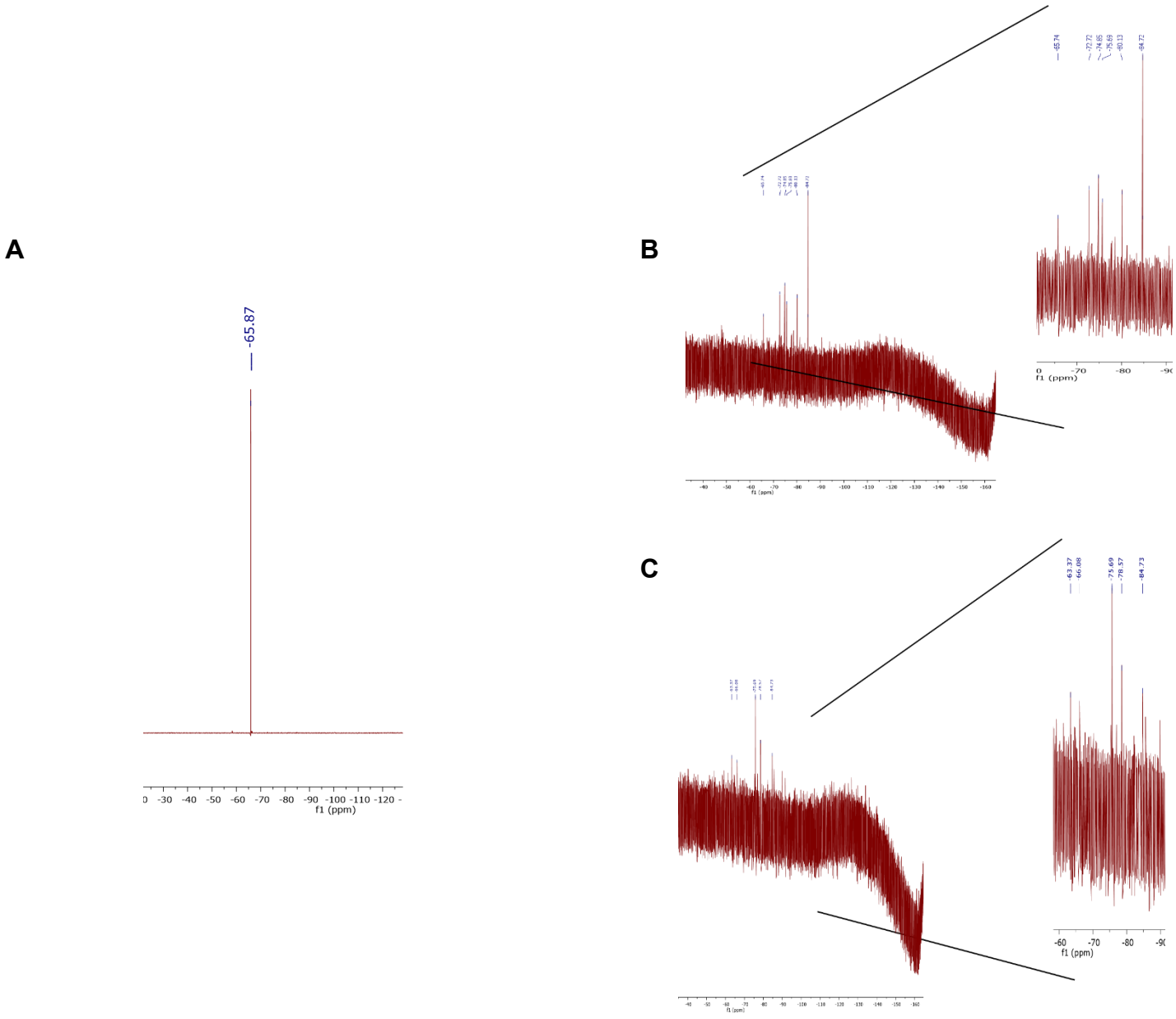
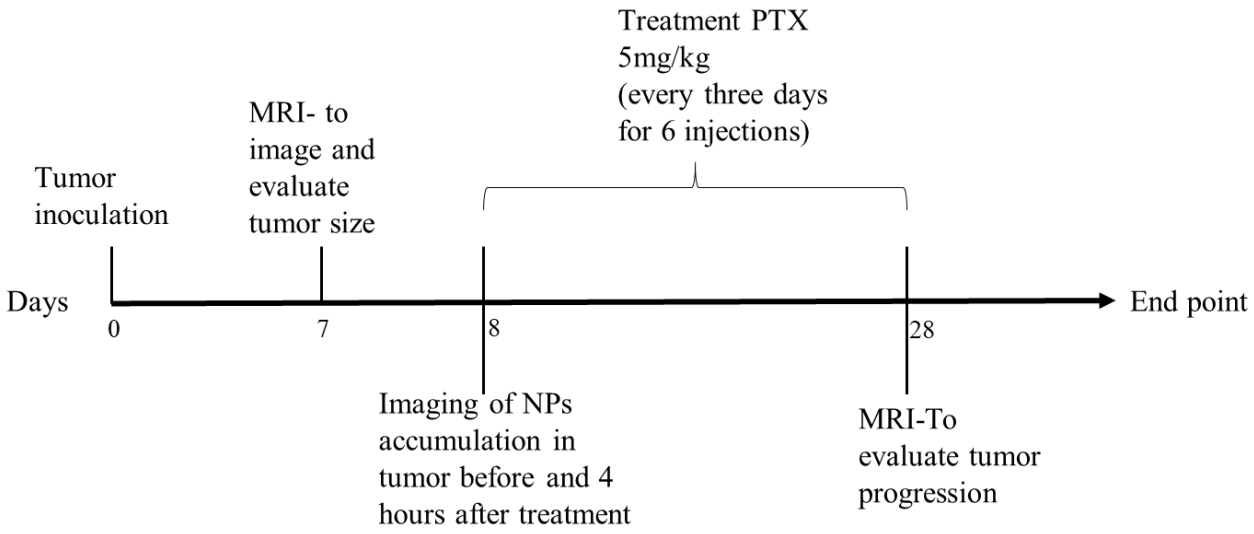
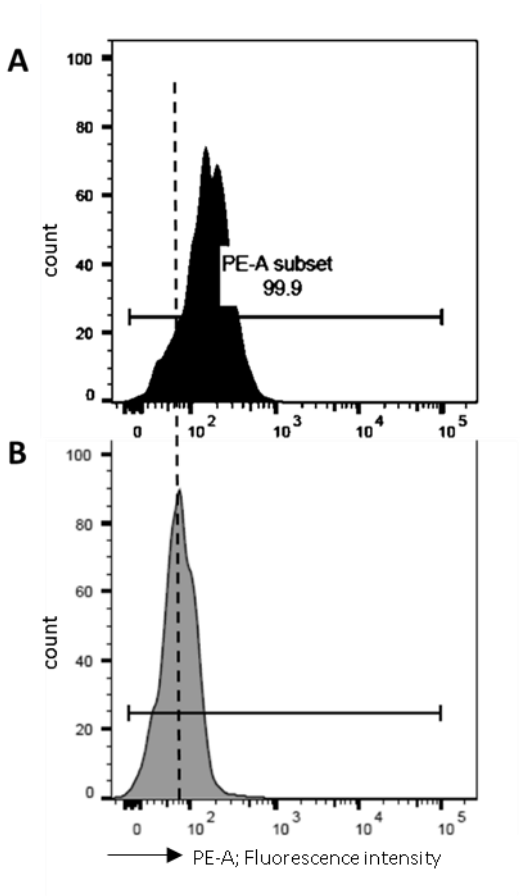
SUPPLEMENTAL DATA



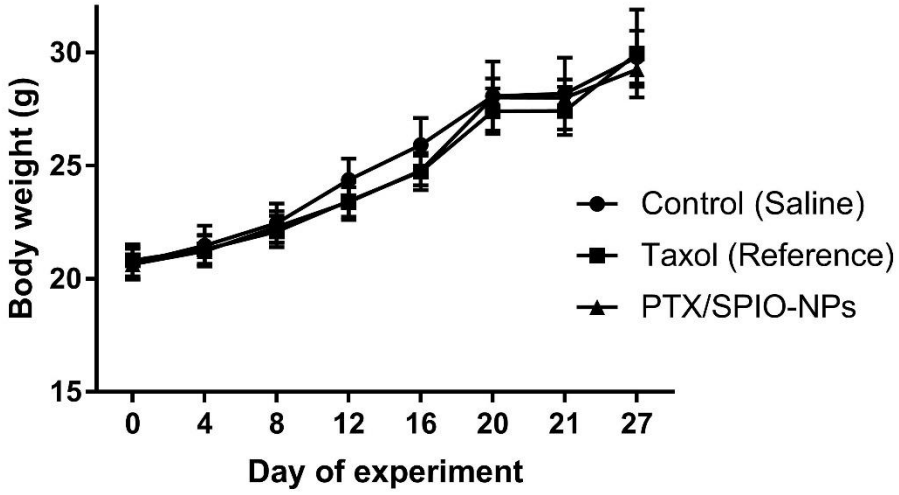
Supplementary data S1. 19F NMR spectra of PCL-*b*-PEG and the molecular clip at each step of the process. A) Molecular clip before irradiation; (B) Polymer + molecular clip before irradiation (C) Polymer + molecular clip before irradiation. With 19F NMR the process was easily monitored. After 90mins of irradiation, total disappearance of the peak at -65 ppm corresponded to the molecular clip function (C) in comparison to the 19F NMR spectrum of both reagents before irradiation (B). As reported in the literature [30], activation of molecular clip is crucial step for the successful grafting of peptide onto NHS ester. Zoom shows the peaks of interest in B and C.



Supplementary data S2. Timeline of *in vivo* experimentation.



Supplementary data S3 U87MG cells expression of $\alpha_v\beta_3$ using monoclonal anti-human αvβ3-phycoerythrin antibody *via* flow cytometry. A) U87MG cells treated with monoclonal anti-human integrin- $\alpha_v\beta_3$ (CD51/61)-phycoerythrin antibody B) Untreated U87MG cells. The phycoerythrin peak shift towards higher fluorescence intensity showed that the antibody binding to the $\alpha_v\beta_3$ receptors expressed on U87MG cells.



Supplementary data S4. *In vivo* toxicity- monitoring of body weight in relation to day of the experimentation