Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Information

Rapid conjugation of nanoparticles, proteins and siRNAs to microbubbles by strain-promoted click chemistry for ultrasound imaging and drug delivery

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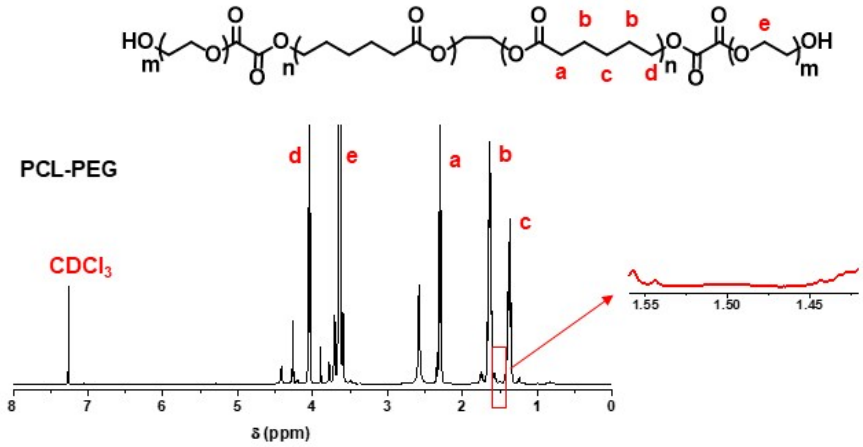

Fig. S1 The ^{1}H NMR spectrum of PCL-PEG-OH (in $CDCl_3$).

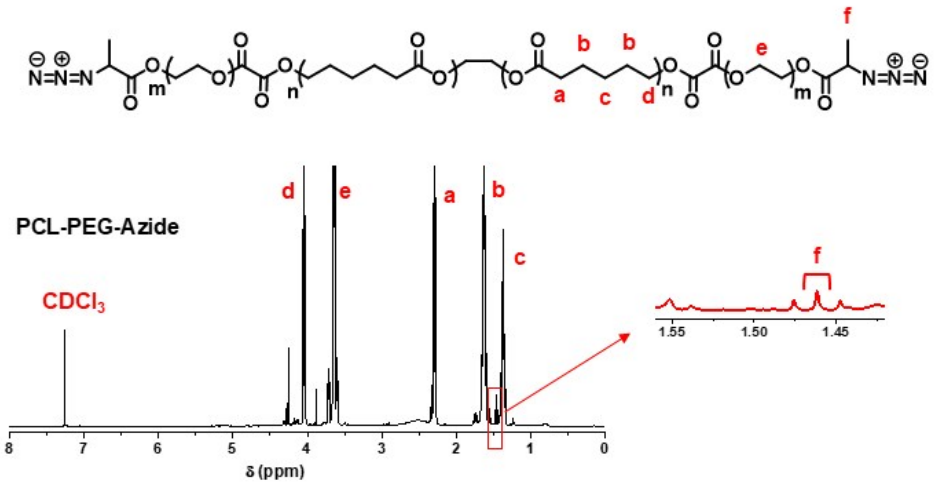

Fig. S2 The ^{1}H NMR spectrum of PCL-PEG-N_3 (in $CDCl_3$).

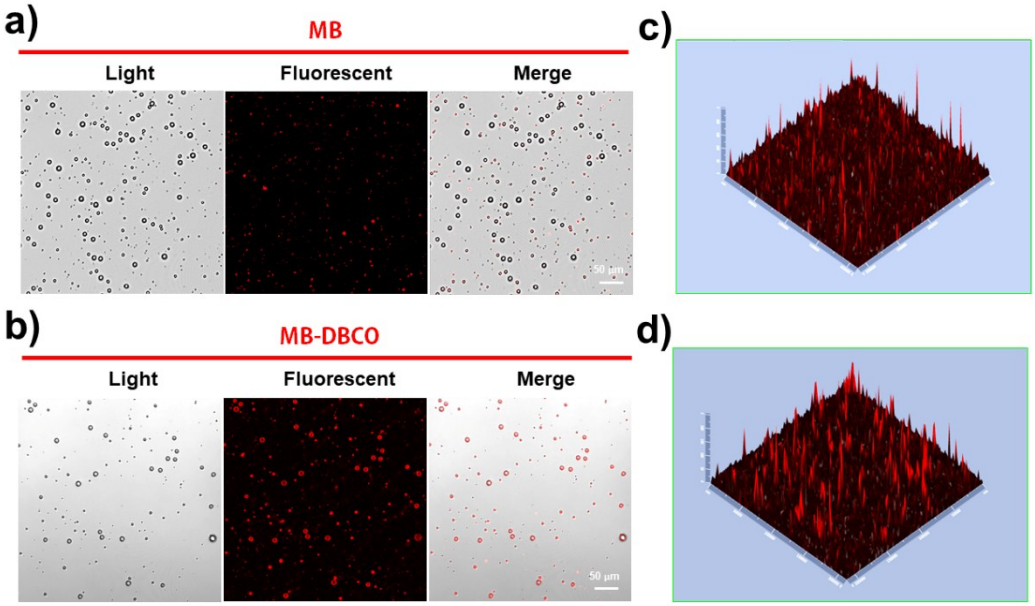

Fig. S3 Confocal fluorescence microscopy images of a) pure HSA MBs and b) DBCO-MBs after ligation with azide modified DOX-NP-azide nanoparticles. Fluorescent intensity mapping of c) pure HSA MBs and d) DBCO-MB after ligation with DOX-encapsuled nanoparticles.

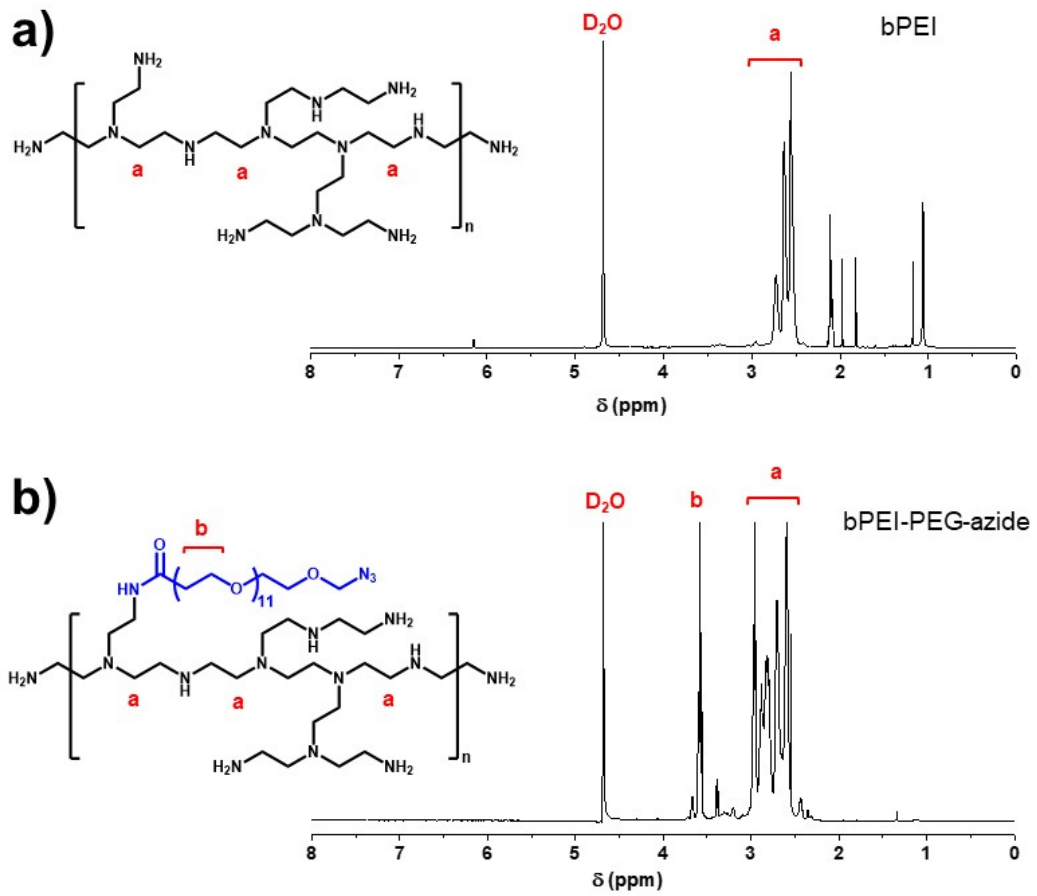

Fig. S4 The ^{1}H NMR spectra of a) bPEI (in D_2O) and b) bPEI-azide (in D_2O).

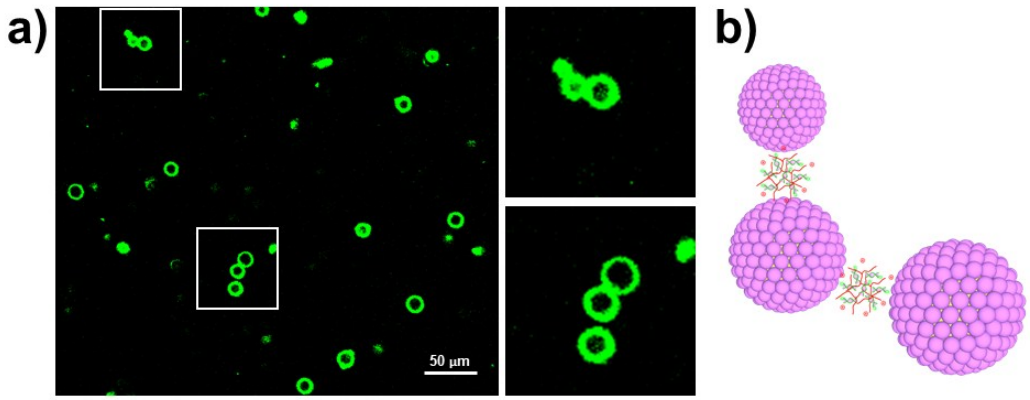

Fig. S5 a) Confocal fluorescence microscopy images of pure HSA MBs after incubation with siRNA-bPEI-azide micelles not blocked with albumin protein. b) Schematic demonstration of static electrical forces causing strong conjugation of microbubbles.