pharmaceutics

Supplementary Materials: A Doxorubicin-Glucuronide Prodrug Released from Nanogels Activated by High-Intensity Focused Ultrasound Liberated β-Glucuronidase

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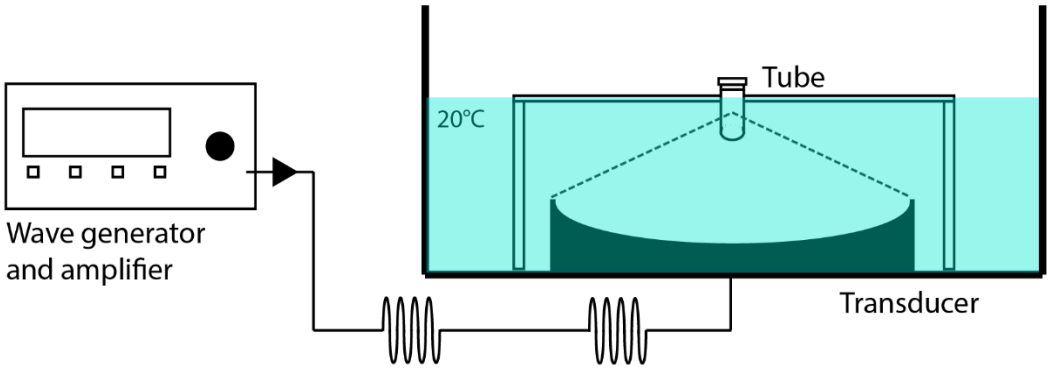

Figure S1. Schematic representation of the in-house-build HIFU setup, consisting of a transducer, an amplifier, an oscilloscope, a wave generator, a hydrophone, and a sample holder. HIFU was performed by a single element focused ultrasound transducer (Imasonic, Besançon, France). During HIFU treatment, a PCR tube (Bio rad, California, USA), containing the sample, was positioned in the sample holder in the focus of the ultrasound beam.

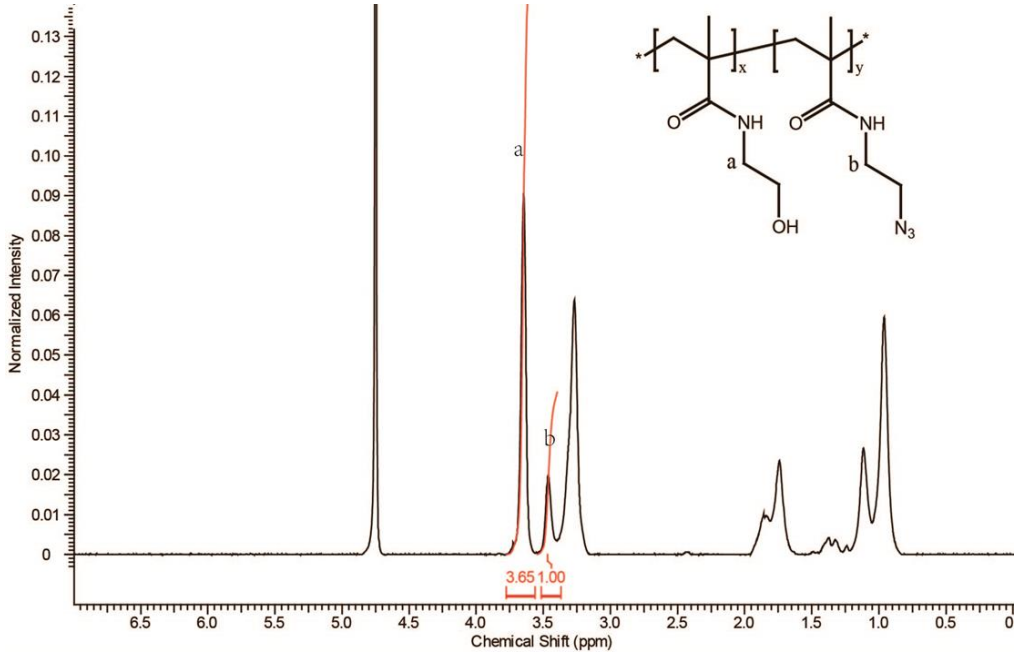

Figure S2. [1]H-NMR spectrum of p(HEAm-co-AzEMAm), from [1], reprinted with permission from Royal Society of Chemistry, 2020.

Table S1. Characteristics of p(HEMAm-co-AzEMAm) as determined by ^{1}H-NMR, UPLC and GPC, obtained from [1], reprinted with permission from Royal Society of Chemistry, 2020.

HEMAm/AzEMAm mol/mol in the feed	**Yield [%]**	**Copolymer composition (by 1H-NMR)**	**Conversion [%] (by UPLC)**		**M_a [kDa] (by GPC)**	**PDI (by GPC)**
			HEMAm	AzEMAm		
80/20	95.6	79/21	98.8	99.1	14.6	3.0

References

1 Chen, Y.; Tezcan, O.; Li, D.; Beztsinna, N.; Lou, B.; Etrych, T.; Ulbrich, K.; Metselaar, J.M.; Lammers, T.; Hennink, W.E. Overcoming multidrug resistance using folate receptor-targeted and pH-responsive polymeric nanogels containing covalently entrapped doxorubicin. *Nanoscale* **2017**, *9*, 10404–10419, doi:10.1039/c7nr03592f.