

Figure S1: Synthetic scheme of PCL-*b*-pSMA

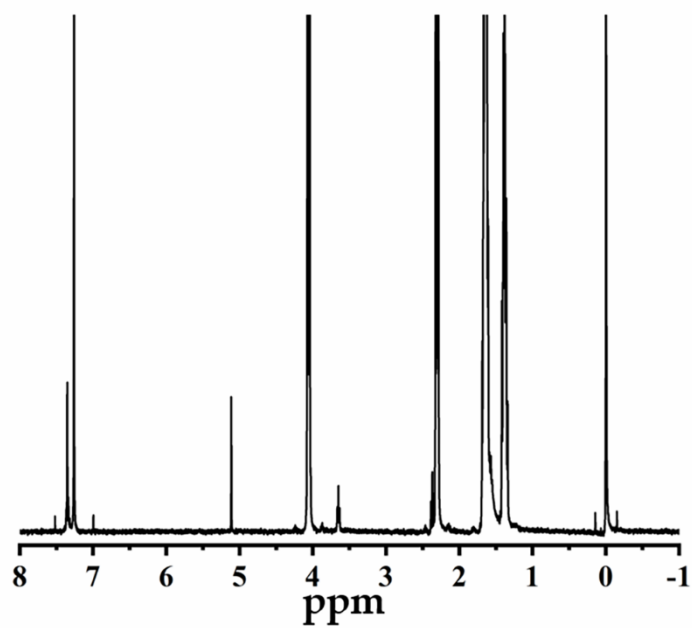


Figure S2: ^1H NMR spectrum of PCL

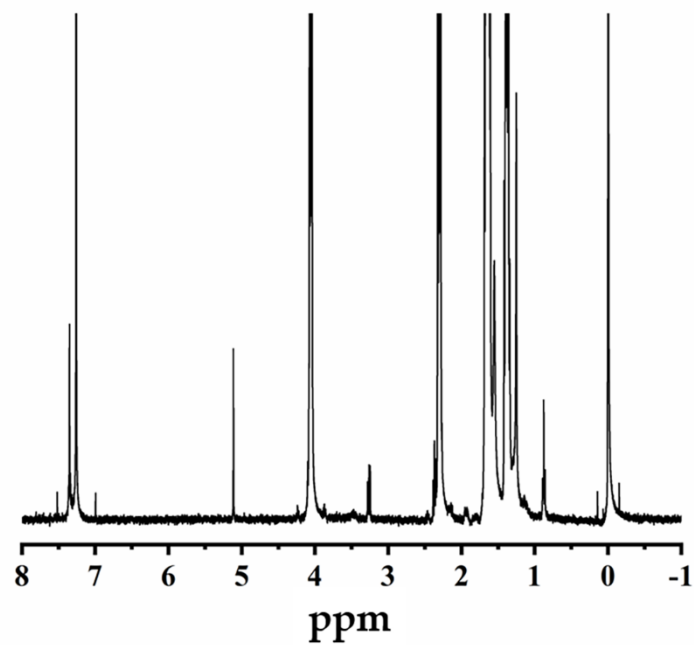


Figure S3: ¹H NMR spectrum of PCL-DDMAT

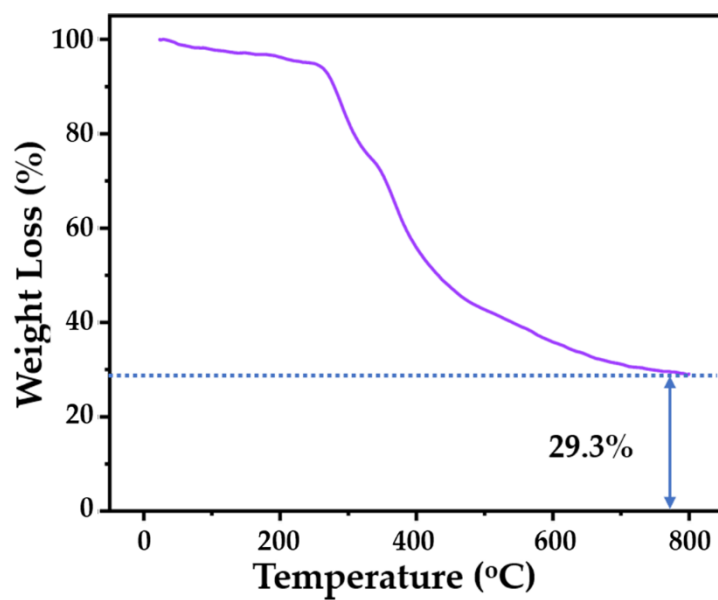


Figure S4: The content of Fe₃O₄ in tumor microenvironment-responsive MNFs

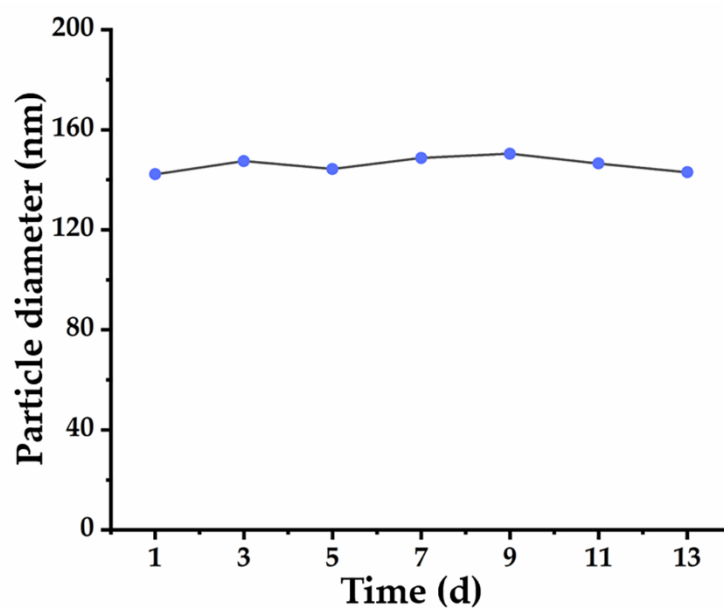


Figure S5: The time-dependent hydrodynamic diameter of tumor microenvironment-responsive MNFs in physiological condition

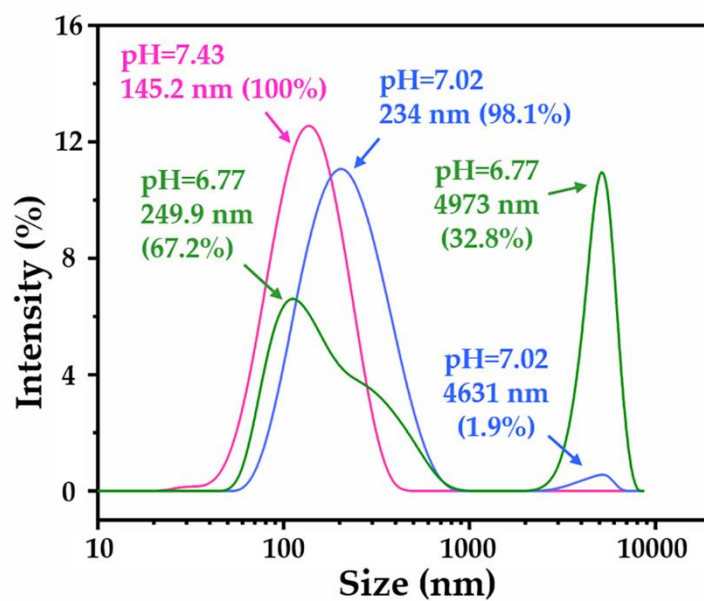


Figure S6: Particle sizes of tumor microenvironment-responsive MNFs in different pH values

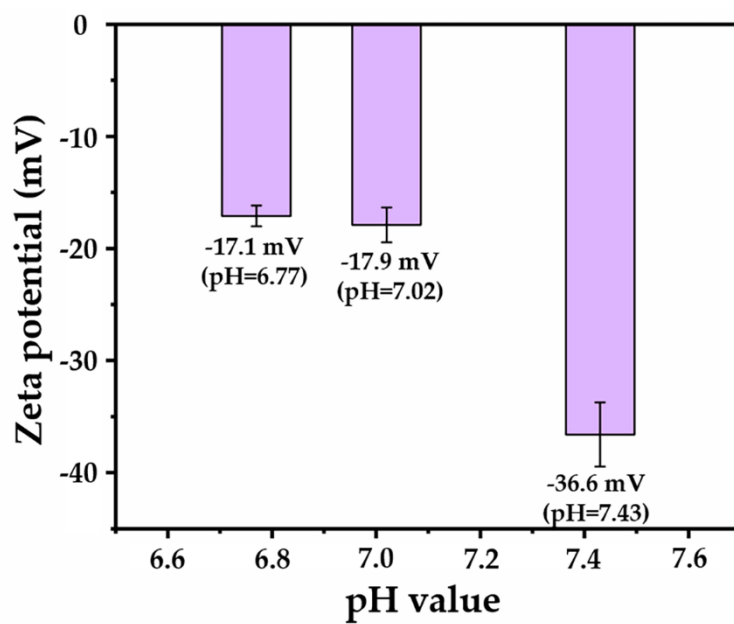


Figure S7: The content of Fe_3O_4 in tumor microenvironment-responsive MNFs

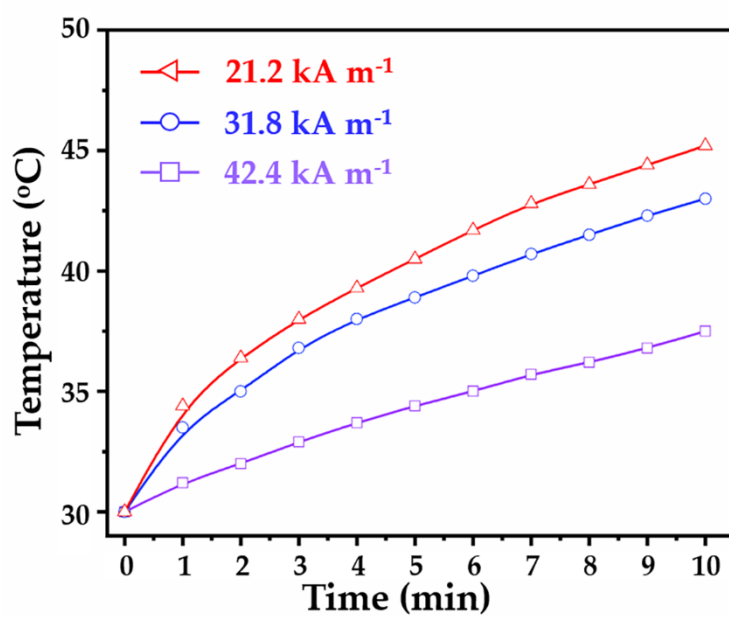


Figure S8: Time-dependent temperature curves of tumor microenvironment-responsive MNFs under AMF with different H_{applied}