

SUPPORTING INFORMATION

Synthesis, characterization, and application of reversible

PDLLA-PEG-PDLLA copolymer thermogels *in vitro* and *in vivo*

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Figuer S1. ¹H-NMR spectrum of PDLLA-PEG-PDLLA copolymer.

Figure S2. H&E staining of major organs after dorsal subcutaneous administration of PDLLA-PEG-PDLLA hydrogel for 8 weeks (×200).

Table S1. The synthesis of copolymers in this study

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SUPPLEMENTARY FIGURES

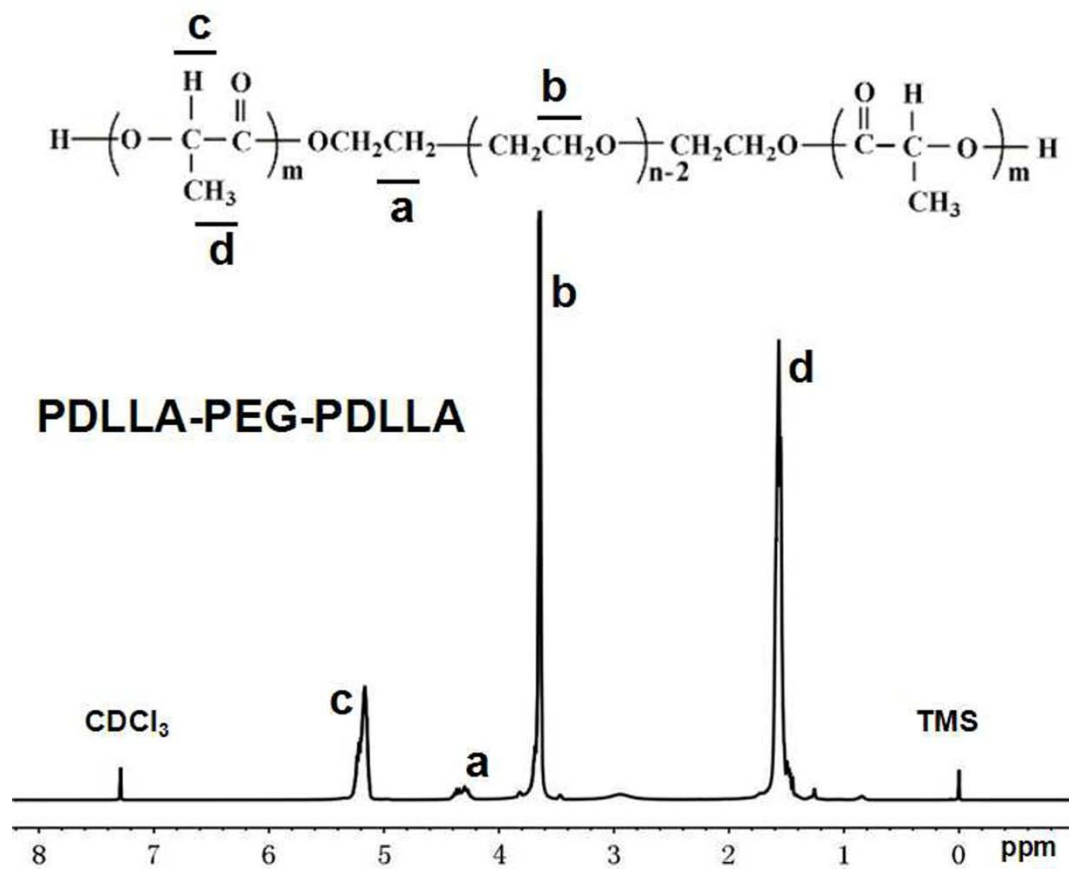


Figure S1. ^1H -NMR spectrum of PDLLA-PEG-PDLLA copolymer.

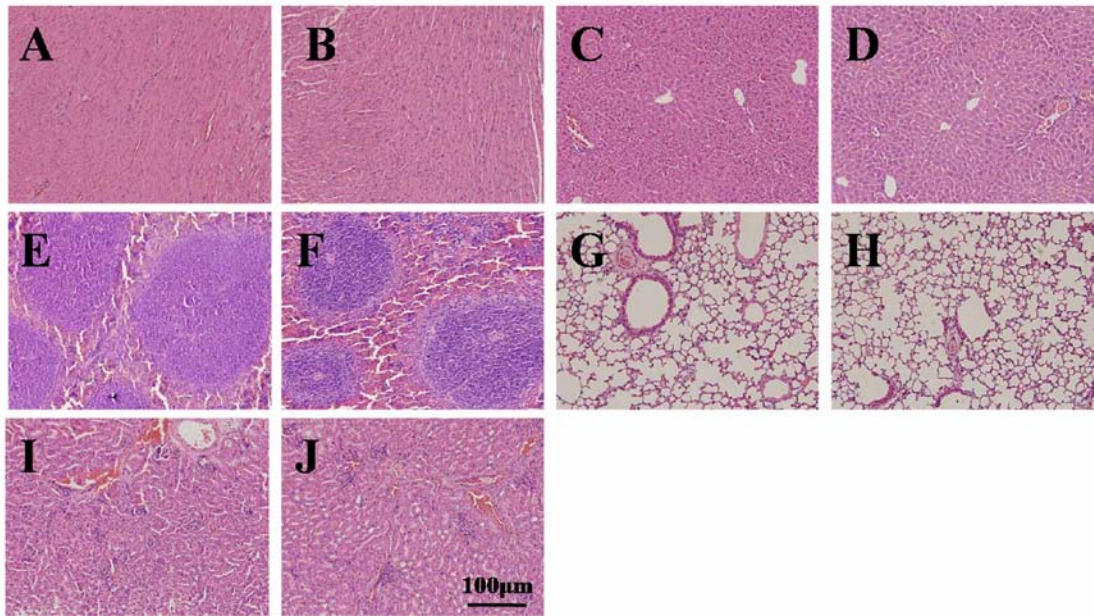


Figure S2. HE-staining of major organs after dorsal subcutaneous administration of PDLLA-PEG-PDLLA hydrogel for 8 weeks ($\times 200$). Mice heart, liver, spleen, lung and kidneys of control group (A, C, E, G, I) and hydrogel-treated group (B, D, F, H, J) respectively. The images was representative of $n = 3$.

SUPPLEMENTARY TABLES

Table S1: The synthesis of copolymers in this study

code	Copolymers	Feeding amounts			Solvent	Precipitant	Yield
		PEG (g)	D,L-lactide (g)	Sn(Oct) ₂ (g)	ethanol (ml)	n-pentane (ml)	%
S1	L ₁₀₀₀ -E ₁₀₀₀ -L ₁₀₀₀	20.00	40.00	0.18	60	600	91.5
S2	L ₁₃₀₀ -E ₁₅₀₀ -L ₁₃₀₀	20.00	34.67	0.16	55	550	92.4
S3	L ₁₅₀₀ -E ₁₅₀₀ -L ₁₅₀₀	20.00	40.00	0.18	60	600	93.2
S4	L ₁₇₀₀ -E ₁₅₀₀ -L ₁₇₀₀	20.00	45.33	0.20	65	650	92.5
S5	L ₂₀₀₀ -E ₂₀₀₀ -L ₂₀₀₀	20.00	40.00	0.18	60	600	91.6
S6	L ₁₀₀₀ -E ₂₀₀₀ -L ₁₀₀₀	20.00	20.00	0.12	40	400	93.7
PCEC	C ₁₀₀₀ -E ₁₀₀₀ -C ₁₀₀₀	20.00	40.00	0.18	60	600	90.8