

Supporting Information

Enzymatically Crosslinked Hydrogels based on Linear Poly(ethylene glycol) Polymer: Performance and Mechanism

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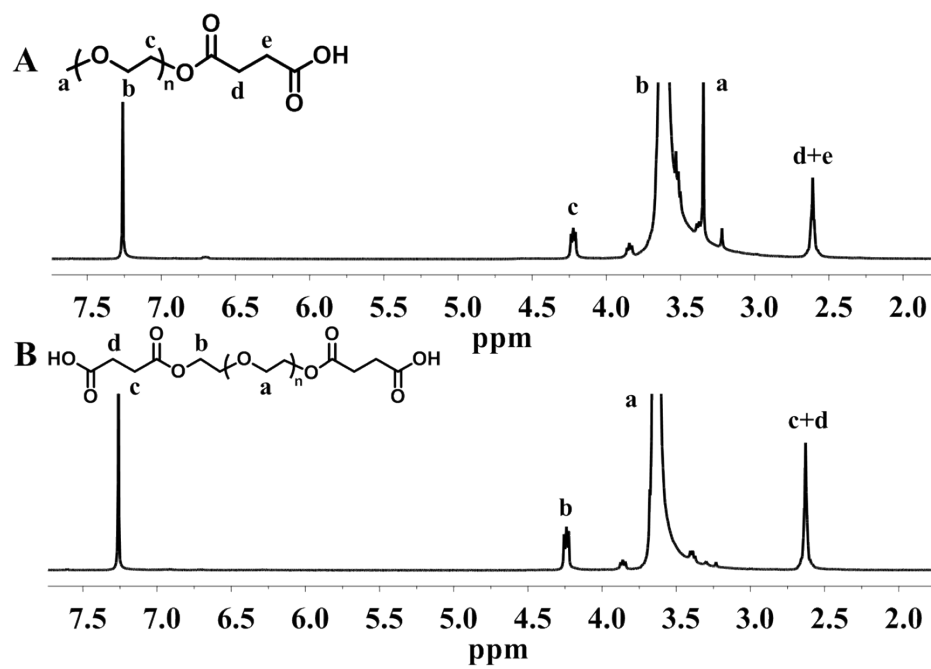


Fig. S1 ¹H NMR spectra of carboxyl-modified mPEG (A) and PEG (B) in CDCl₃.

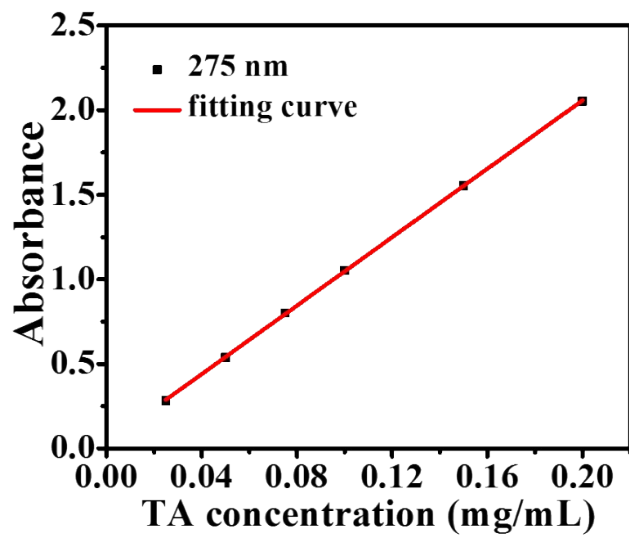


Fig. S2 Calibration curve of the absorbance at 275 nm of tyramine at different concentrations.

The content of conjugated tyramine groups was calculated by using the fitting formula, $y = 10.11x - 0.0355$, $R^2 = 0.9999$.

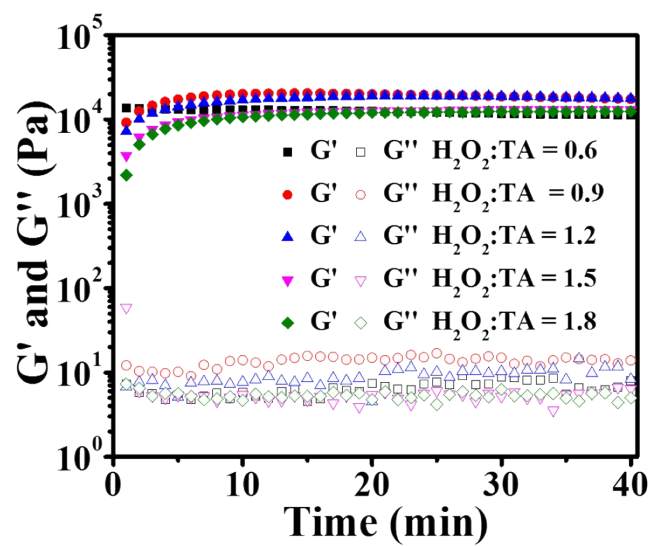


Fig. S3 (A) G' and G'' of TA-PEG-TA hydrogels at different H_2O_2/TA molar ratio as a function of time. The polymer and HRP concentration were 5% and 8 units/mL, respectively.

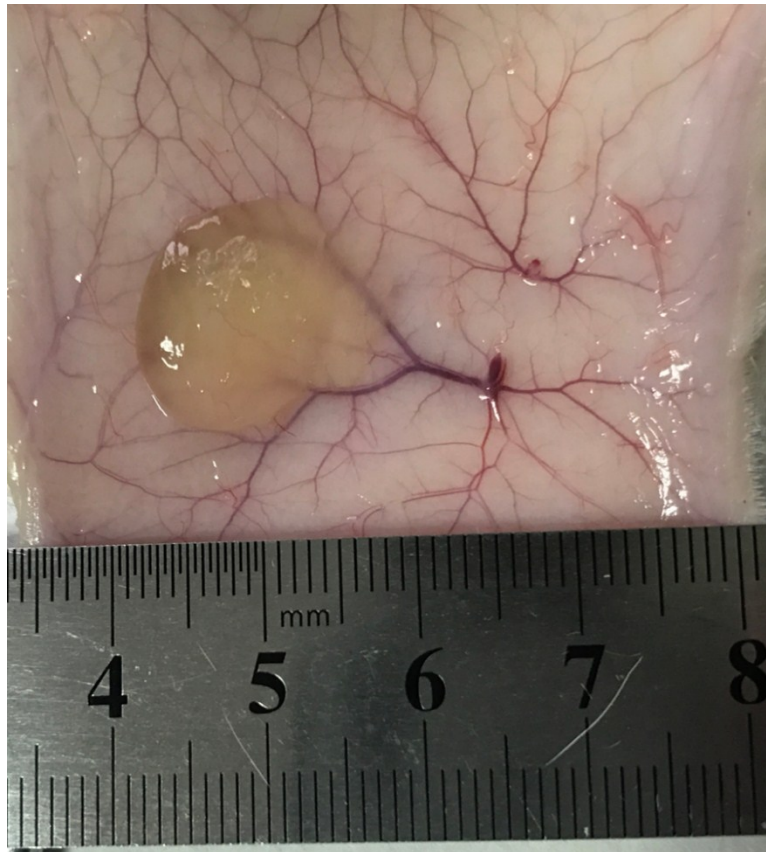


Fig. S4 *In vivo* TA-PEG-TA hydrogel status of 2.5% gel in the subcutaneous layer of rats after the injection at 30 mins.

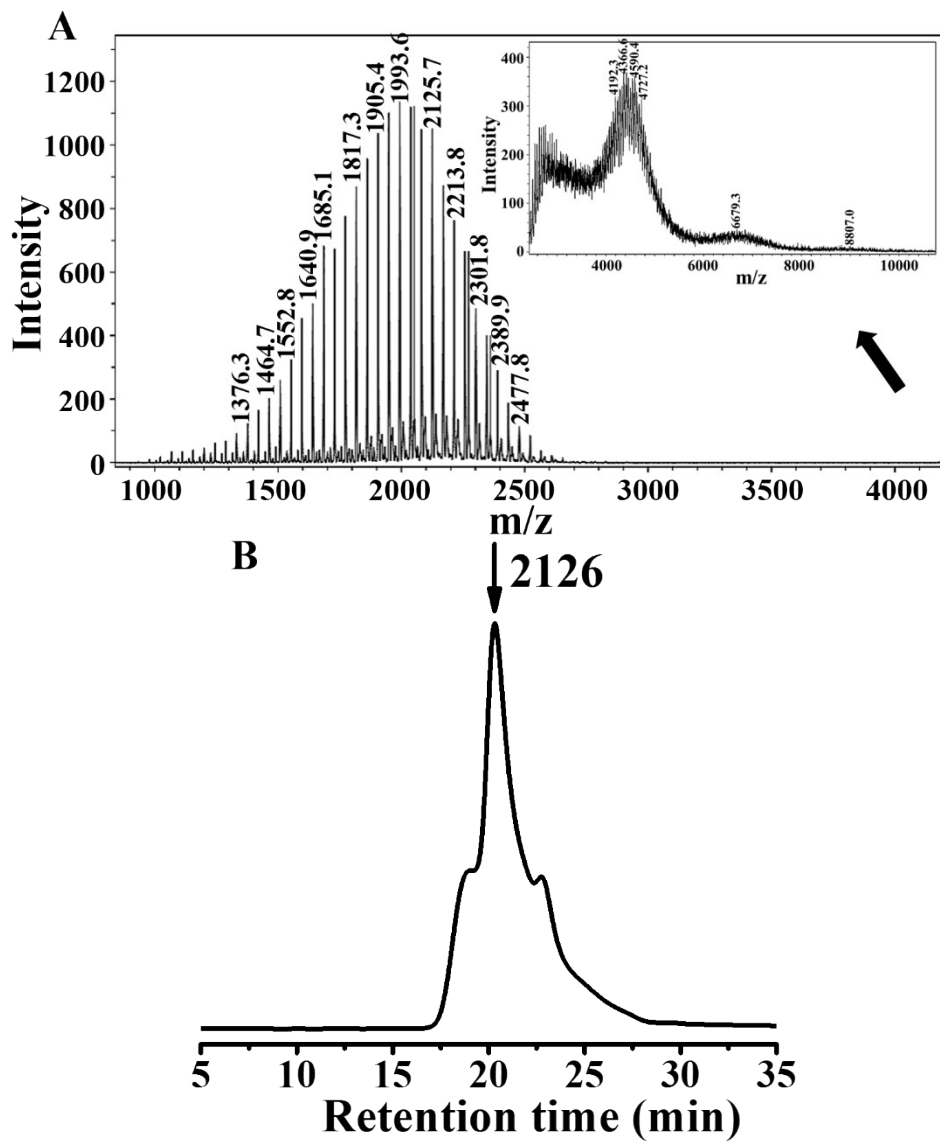


Fig. S5 (A) MALDI-TOF mass spectra and (B) GPC traces of the products after mixing mPEG-TA with HRP and H₂O₂. The H₂O₂/TA molar ratio was 0.3. The insert is the partially magnified MALDI-TOF mass spectrum.