

Supporting Information

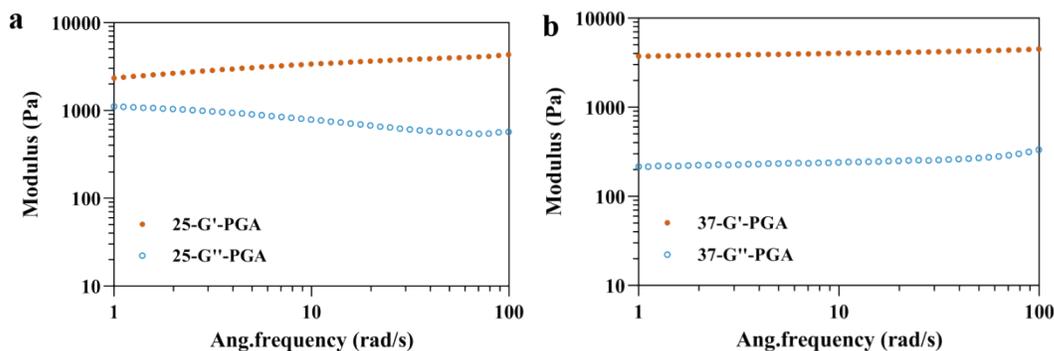


Figure S1. The angular frequency sweep scanning of PGA at (a) 25 °C and (b) 37 °C environment.

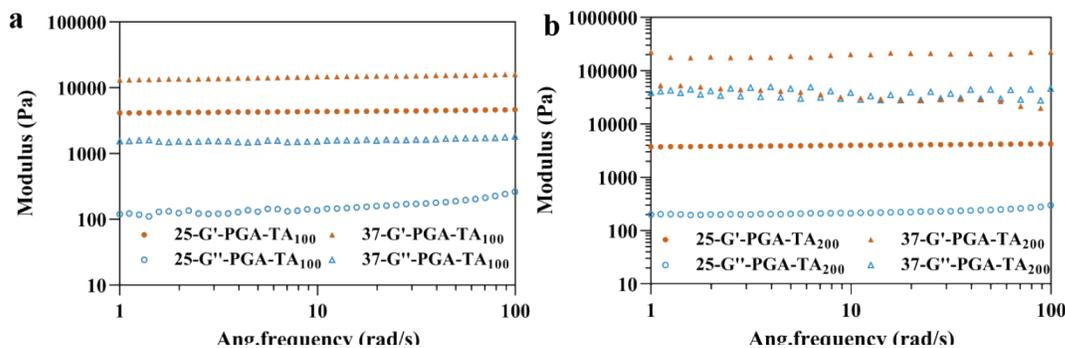


Figure S2. The angular frequency sweep scanning of (a) PGA-TA₁₀₀ and (b) PGA-TA₂₀₀ at 25 °C and 37 °C environment.

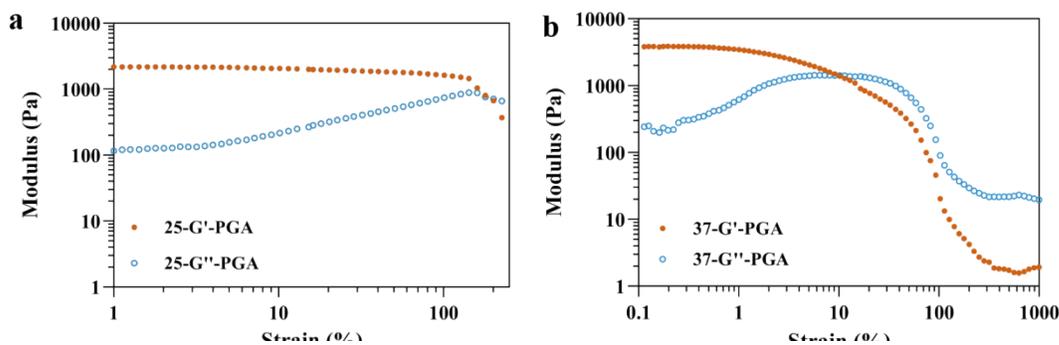


Figure S3. The strain oscillatory scanning of PGA at (a) 25 °C and (b) 37 °C environment.

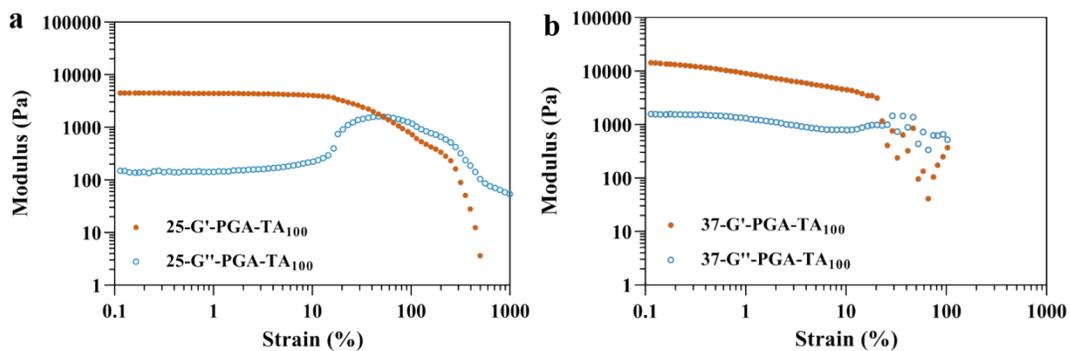


Figure S4. The strain oscillatory scanning of PGA-TA₁₀₀ at (a) 25°C and (b) 37 °C environment.

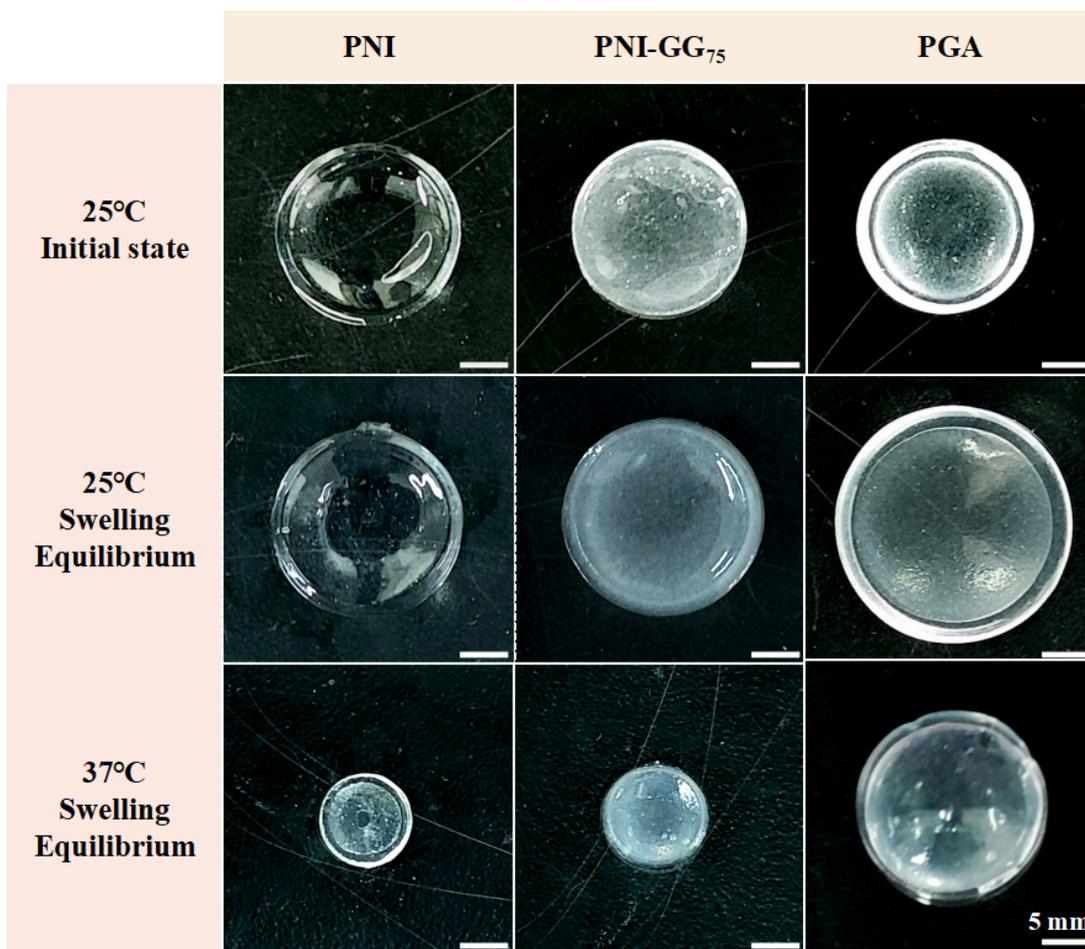


Figure S5. The active contraction behavior of PNIPAM、PNI-GG₇₅ and PGA placed in 25°C and 37°C environment for 1 h.

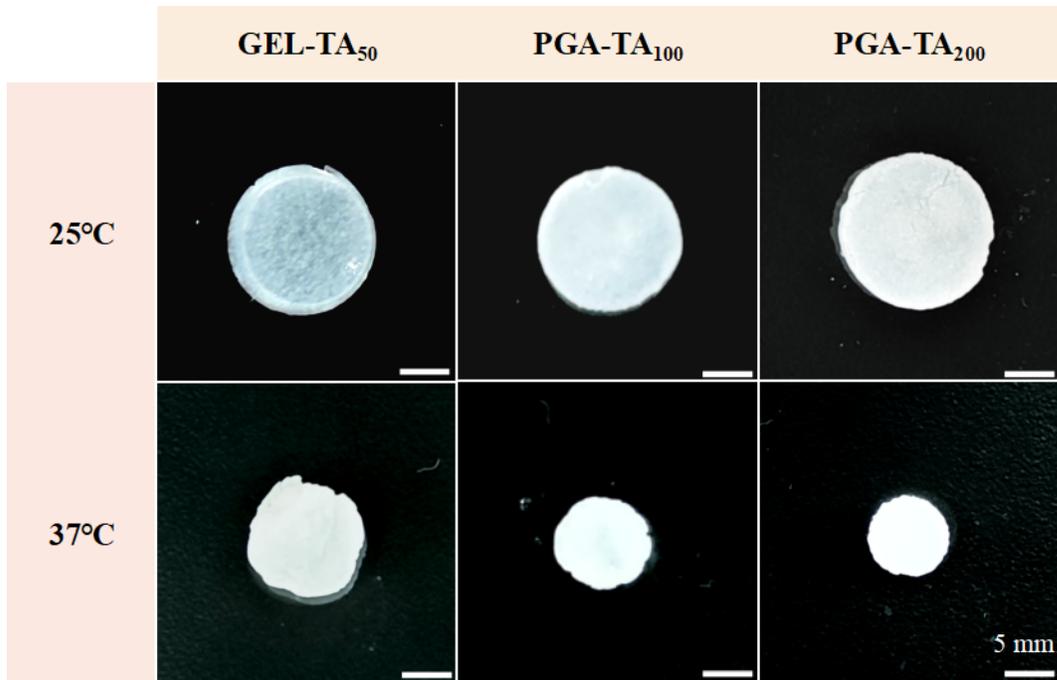


Figure S6. The active contraction behavior of hydrogels with different proportions placed in 25 °C and 37 °C environment for 1 h.

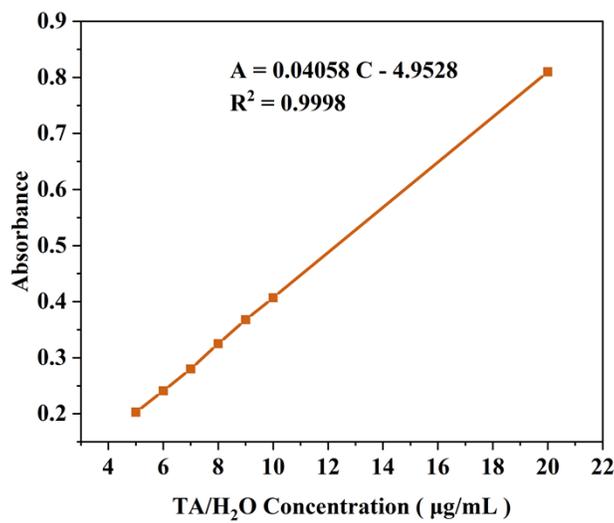


Figure S7. Standard curve for determining the content of TA aqueous solution by UV method.

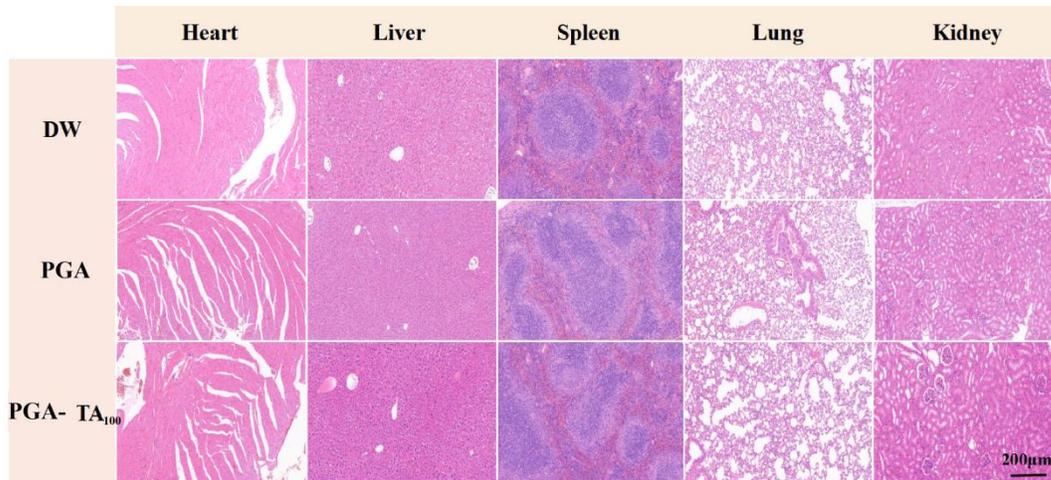


Figure S8. Effects of PGA and PGA-TA₁₀₀ hydrogels on long-term toxicity of major organs in mice.