

Supporting Information

Injectable poly(γ -glutamic acid)-based biodegradable hydrogels with
tunable gelation rate and mechanical strength

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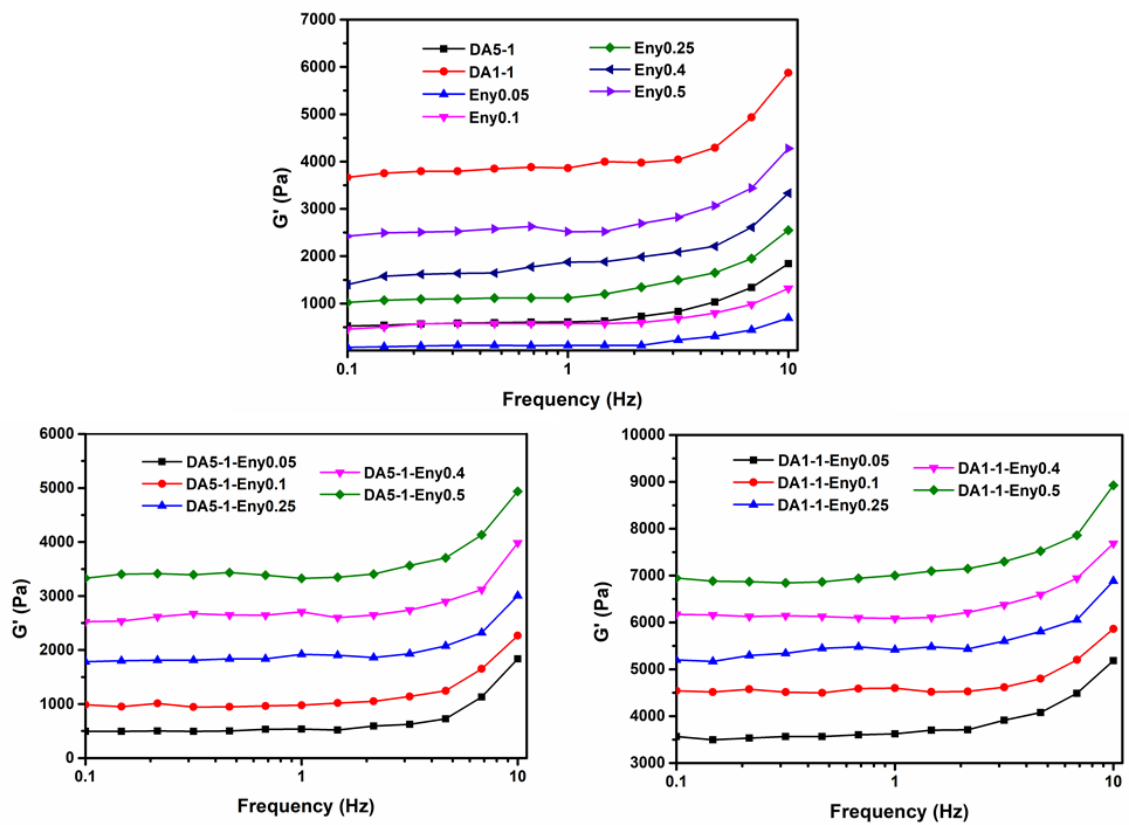


Figure. S1 storage modulus of hydrogels under frequency sweep.

Table S1 Compressive properties of DA, Eny and DA-Eny hydrogels

Samples	Compressive stress (kPa)	Fracture strain (%)
DA5-1	20.6±1.0	92.4±2.4
DA1-1	74.4±1.2	79.5±1.6
Eny0.05	0.5±0.2	89.5±2.2
Eny0.1	6.2±0.8	72.8±2.5
Eny0.25	11.1±0.5	65.2±3.0
Eny0.4	17.5±1.0	51.4±2.6
Eny0.5	20.0±1.8	43.7±2.3
DA5-1-Eny0.05	6.9±0.9	88.5±1.5
DA5-1-Eny0.1	21.0±1.2	70.6±1.8
DA5-1-Eny0.25	36.2±1.6	65.4±2.1
DA5-1-Eny0.4	40.7±1.8	60.0±2.0
DA5-1-Eny0.5	46.5±2.0	53.6±1.2
DA1-1-Eny0.05	60.2±1.1	77.5±1.6
DA1-1-Eny0.1	80.3±1.4	75.6±1.3
DA1-1-Eny0.25	93.9±1.8	71.8±1.7
DA1-1-Eny0.4	119.7±2.1	70.6±0.9
DA1-1-Eny0.5	140.9±1.9	67.0±1.1

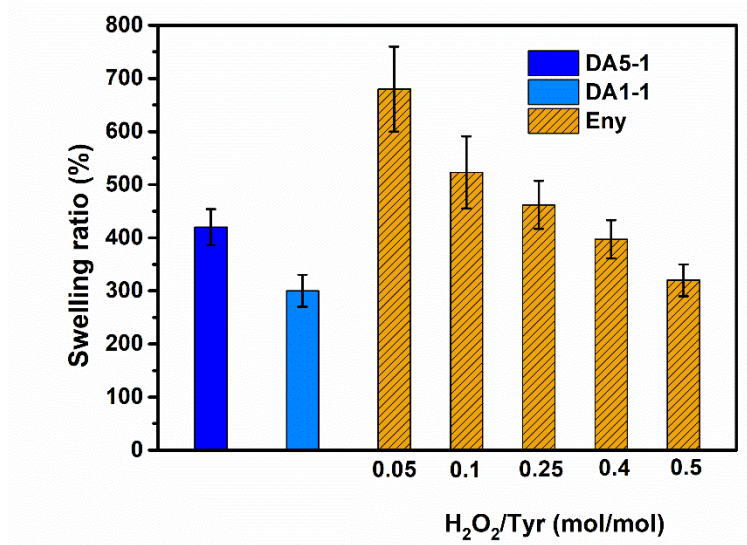


Figure. S2 Swelling ratio of DA hydrogels and Eny hydrogels in pH 7.4 PBS.

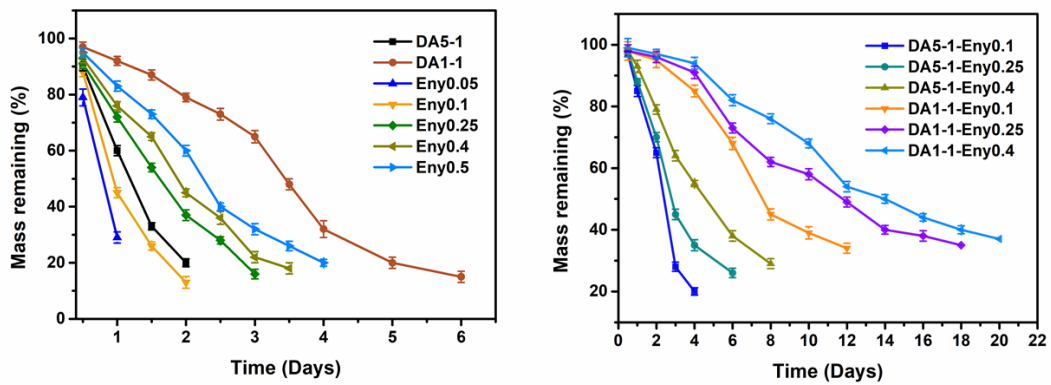


Figure. S3 Mass degradation percentage of DA hydrogels, Eny hydrogels and DA-Eny hydrogels in pH 7.4 PBS.

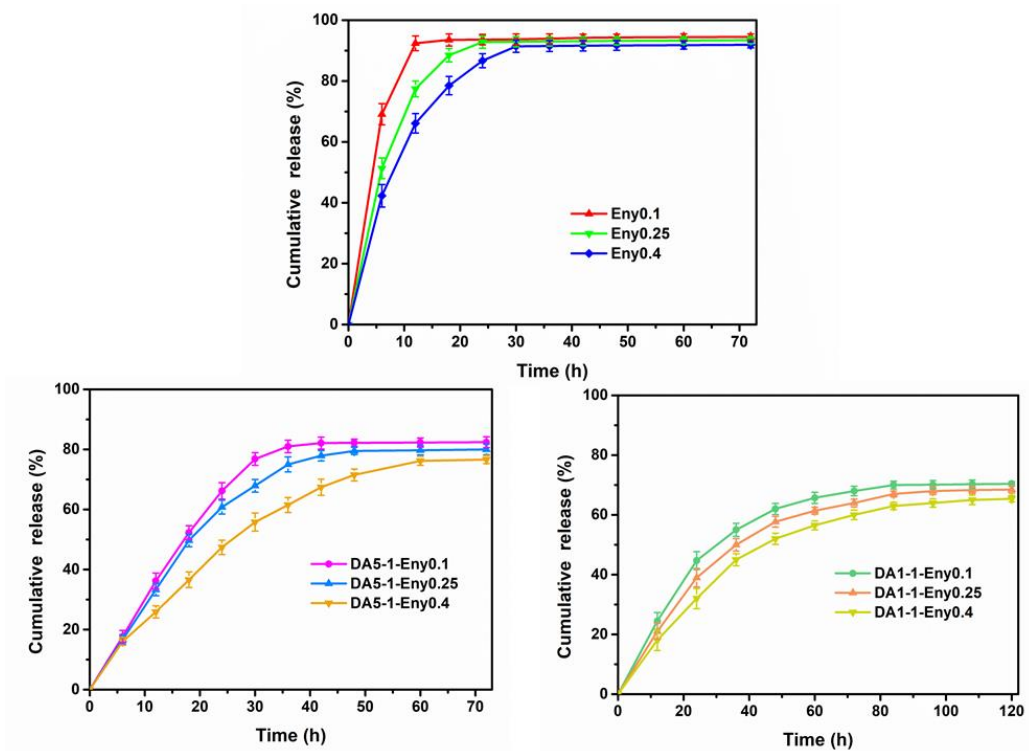


Figure. S4 *In vitro* release profiles of BSA from DA hydrogels, Eny hydrogels and DA-Eny hydrogels in pH 7.4 PBS.

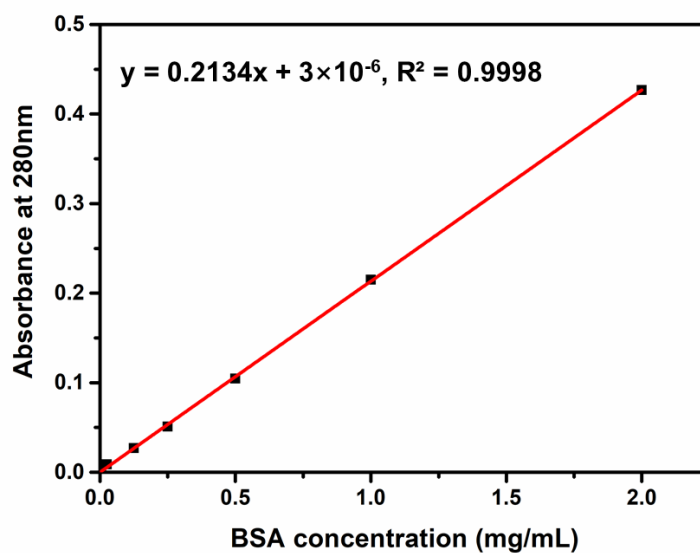


Figure S5. The standard curve of BSA in pH 7.4 PBS