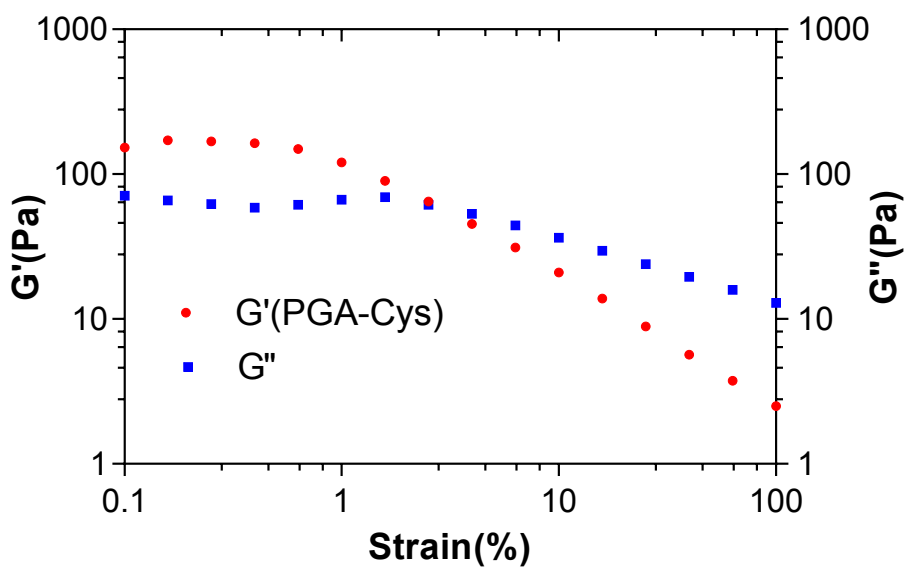


Supporting information



FigS1 Oscillatory strain sweeps of PGA-Cys-1.5 hydrogel at concentration of 4%

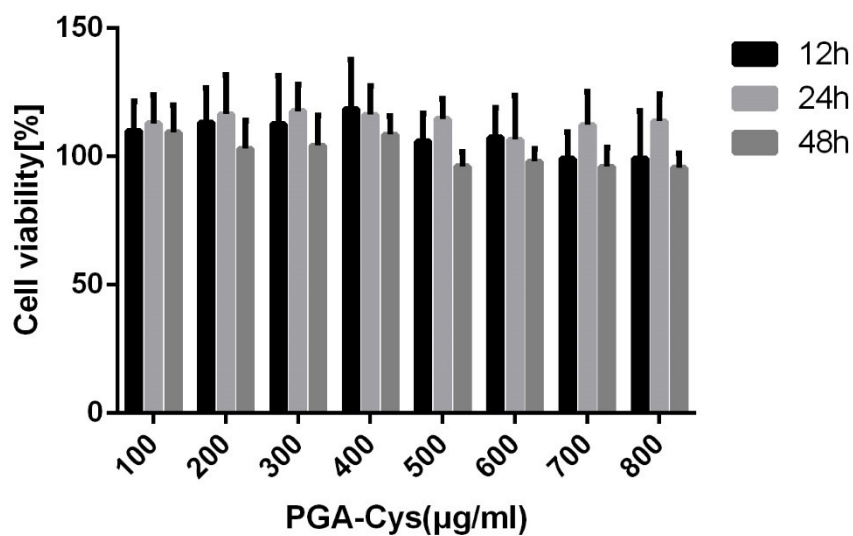


Fig S2 Toxicity of PGA-Cys hydrogel on NIH3T3 cells

Table S1 The thiol group contents of PGA -Cys at different feed ratios determined by ¹H-NMR and Ellman's assay

The theoretical feeding ratio of PGA/Cys	The actual content of thiols	
	Ellman's assay (%)	¹ H- NMR (%)
1:1	6.7±2.1	7.2±4.0
1:2	11.7±2.5	13.1±1.8
1:3	18.3±3.7	20.2±5.1
1:4	25.1±1.4	27.5±1.3
1:5	31.3±4.6	35.7±3.7