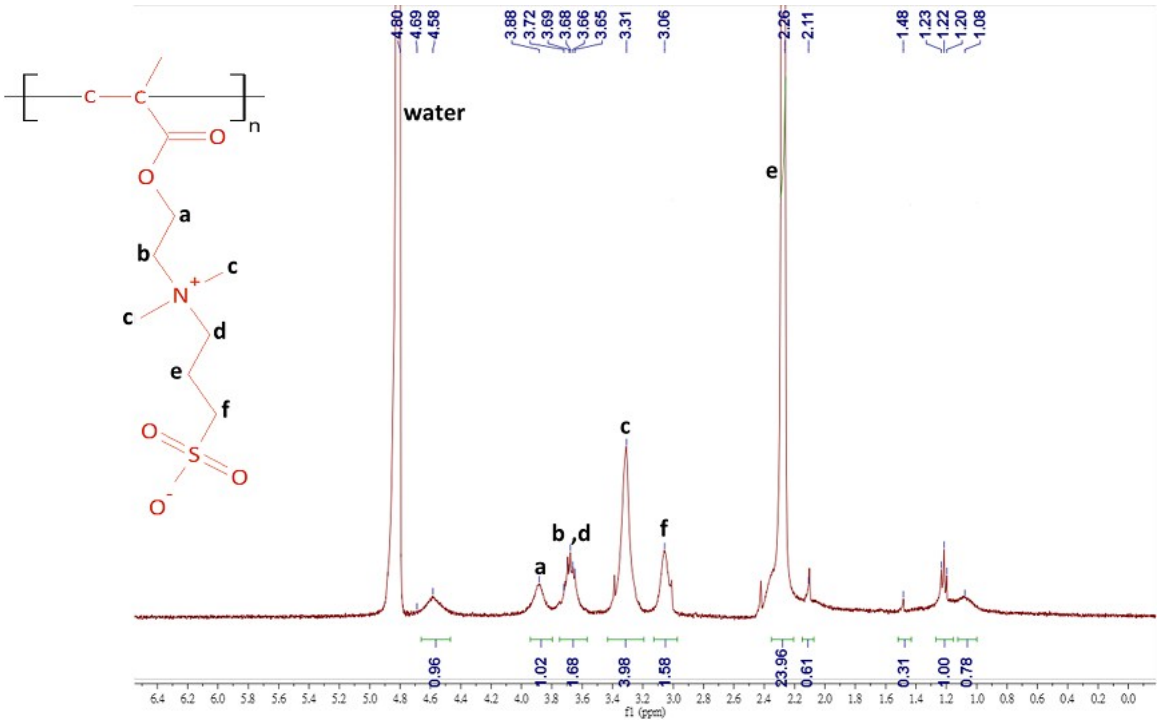
Electronic Supplementary Material (ESI) for RSC Advances.

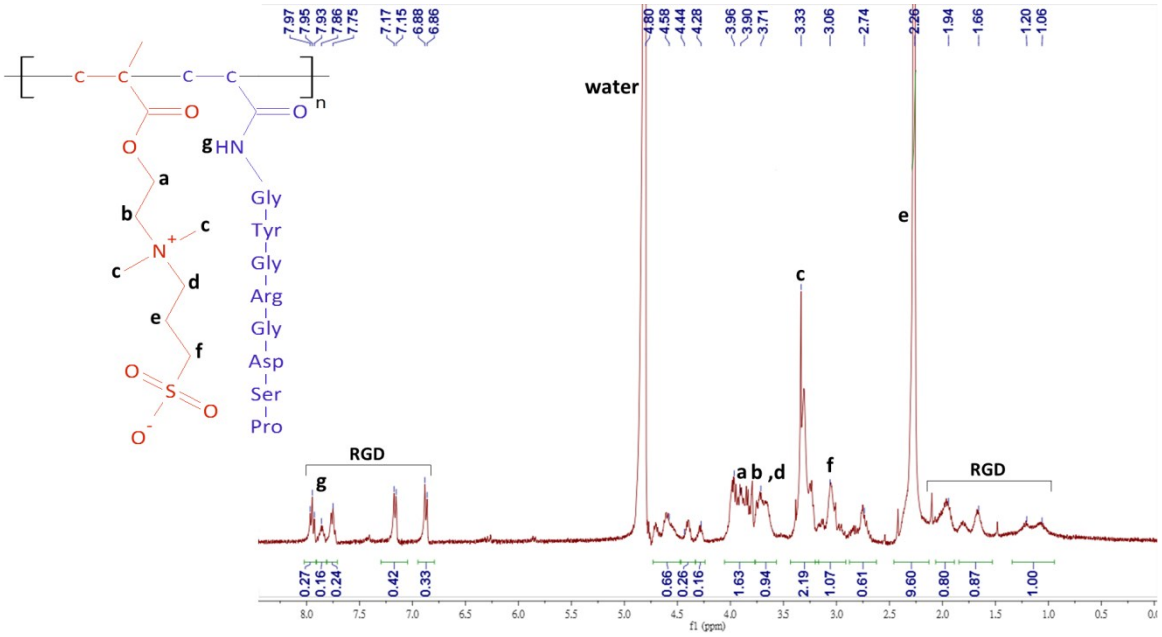
Supplementary material

Figure S1 The ^{1}H NMR spectrums of PSBMA.



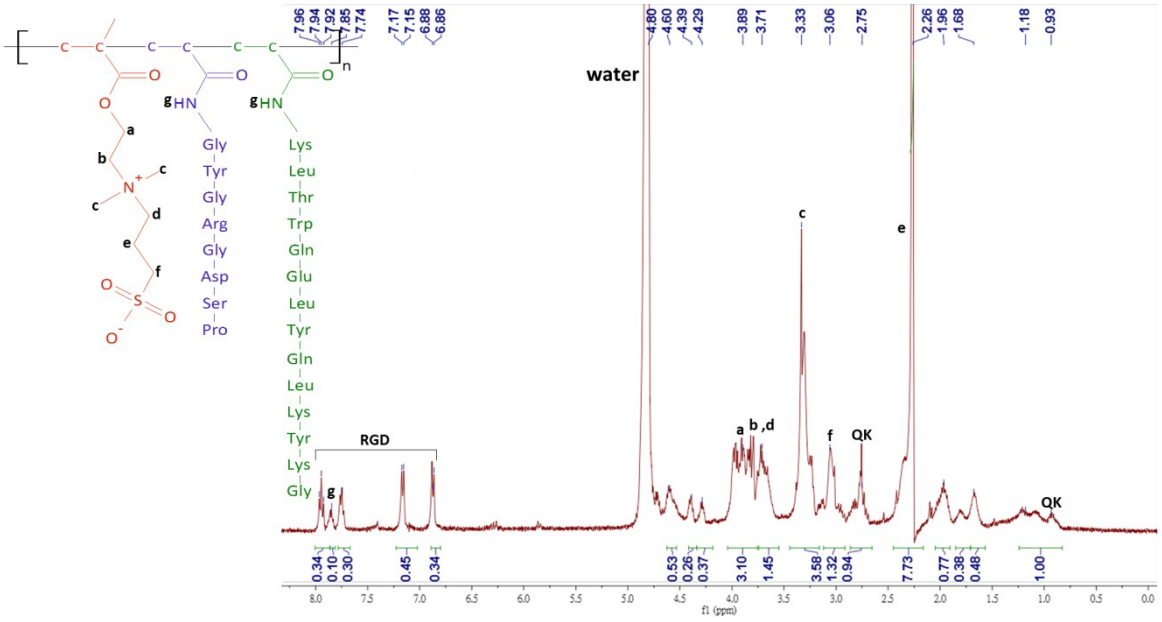
The content of PSBMA was determined from the ^{1}H NMR spectrum according to the peak ratio of the methyl protons at 3.2-3.4 ppm, the methylene protons of the polymer main chain at 2.0–2.4 ppm and the methylene protons adjacent to the oxygen at 3.6-4.0 ppm as shown in Figure S1.

Figure S2 The ^{1}H NMR spectrums of PSBMA-RGD.



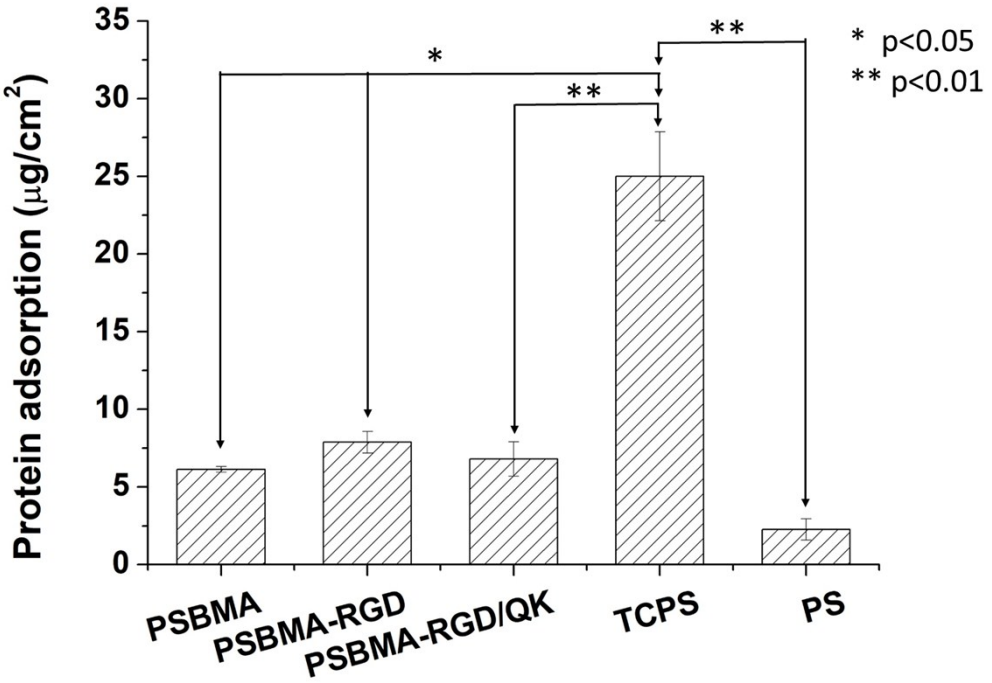
The content of PSBMA-RGD was determined from the ^{1}H NMR spectrum according to the peak ratio of the amine protons adjacent to the nitrogen atom at 7.7-7.9 ppm (g), and other protons of RGD at 1.0-2.3 ppm, as shown in Figure S2.

Figure S3 The ^{1}H NMR spectrums of PSBMA-RGD/QK.



The content of PSBMA-RGD/QK was determined from the ^{1}H NMR spectrum according to the peak ratio of the amine protons adjacent to the nitrogen atom at 7.7-7.9 ppm (g), and other protons of QK at 0.8 and 3.3 ppm, as shown in Figure S3.

Figure S4 Protein adsorptions to PSBMA, PSBMA-RGD, and PSBMA-RGD/QK hydrogels.



The adsorbed proteins in PSBMA, PSBMA-RGD, and PSBMA-RGD/QK hydrogels were desorbed by SDS and quantified by BCA kit. The protein adsorption to TCPS was significantly higher than those of PSBMA hydrogels, peptides-incorporated PSBMA hydrogels, and PS. However, there was no significant difference in the amounts of protein adsorption among PSBMA hydrogels groups.