

Electronic Supporting Information

Co-assembled Supramolecular Hydrogels of Cell Adhesive Peptide and Alginate for Rapid Hemostasis and Efficacious Wound Healing

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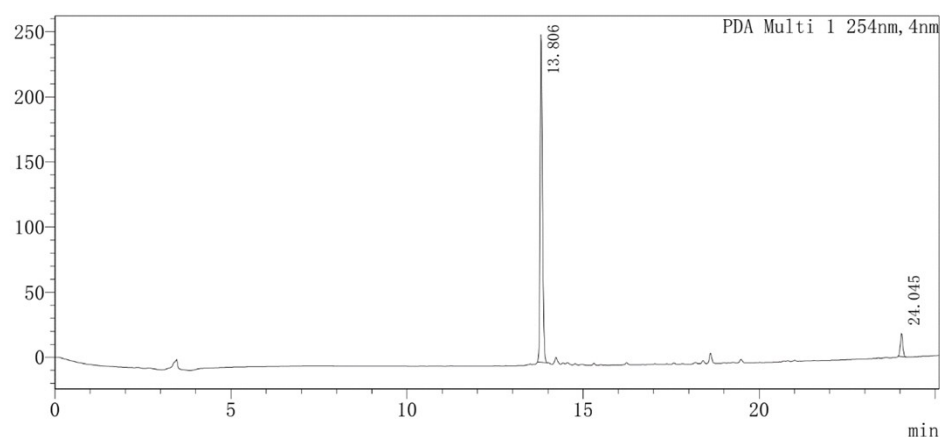
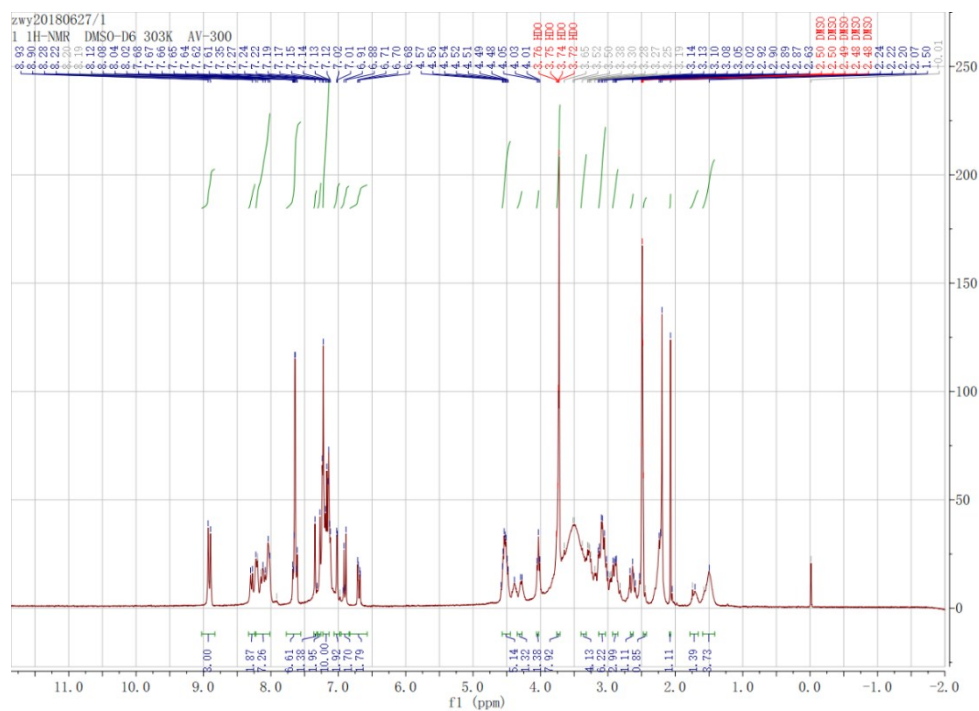


Figure S1. HPLC elution curve of **Pept-1**.

Figure S2. ^1H NMR spectrum of **Pept-1** (300 MHz, DMSO).

^1H NMR (300 MHz, DMSO) δ 8.92 (d, J = 9 Hz, 3H), 8.29 (d, J = 6 Hz, 2H), 8.22-8.02 (m, 7H), 7.68-7.61 (m, 7H), 7.35 (s, 1H), 7.28 (s, 2H), 7.23-7.13 (m, 12H), 7.02 (d, J = 3 Hz, 1H), 6.91 (dd, J = 6 Hz, J = 9 Hz, 2H), 6.69 (dd, J = 3 Hz, J = 3 Hz, 2H), 4.58-4.48 (m, 5H), 4.28 (m, 1H), 4.03 (t, J = 6 Hz, 2H), 3.76-3.72 (m, 8H), 3.14-3.02 (m, 4H), 2.48-2.42 (s, 1H), 2.07 (s, 1H), 1.80–1.67 (m, 1H), 1.52 (dd, J = 13.7, 8.5 Hz, 3H).



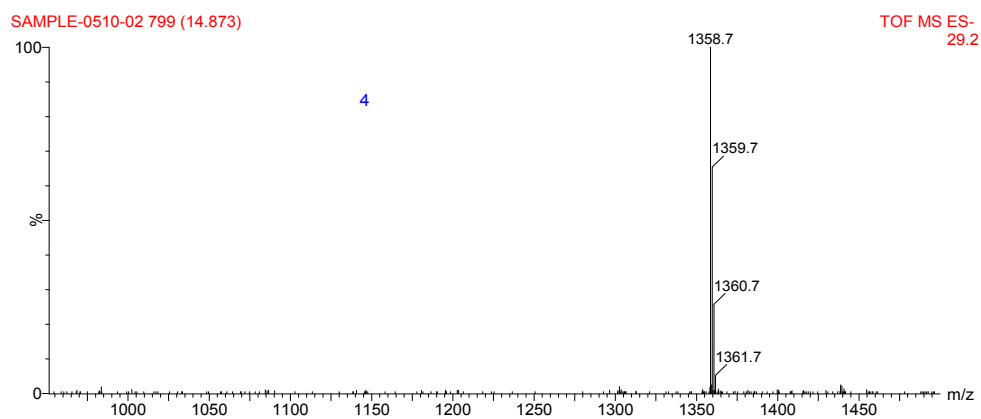


Figure S3. TOF-MS spectrum of **Pept-1**. MS: calc.: $[M-H] = 1359$, obsvd.: $[M-H] = 1358.7$.



Figure S4. Partial and uneven gelation of **ALG** (1 wt%) with 3.3 mM of CaCl_2 .

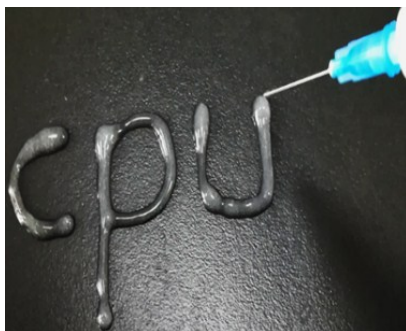


Figure S5. Letter writing of “CPU” with **Pept-1/ALG** hydrogel preloaded in a syringe.

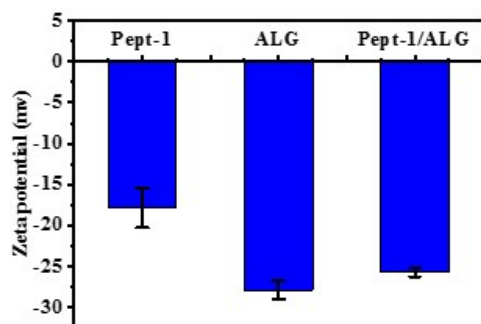


Figure S6. Zeta potential of the **Pept-1**, **ALG** and **Pept-1/ALG**.

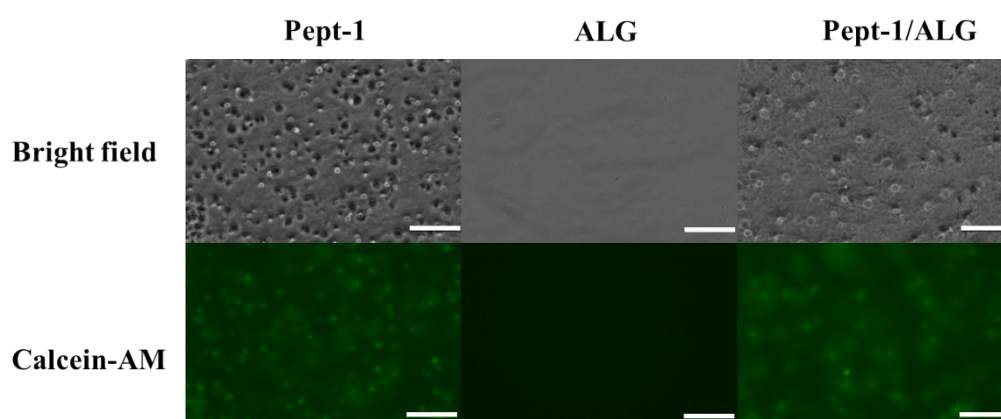


Figure S7. Adhesion of platelet on **Pept-1**, **ALG** and **Pept-1/ALG** hydrogels. Bar: 100 μm .

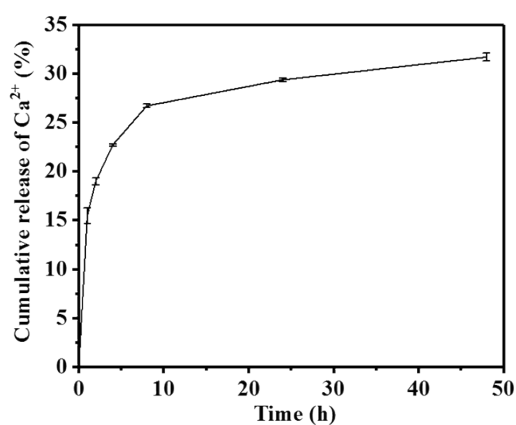


Figure S8. Cumulative release of calcium ions from **Pept-1/ALG** hydrogels (2 wt%).

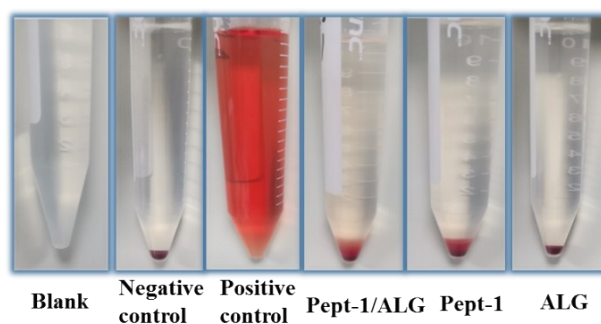


Figure S9. Photographs of hemolytic effect of **Pept-1**, **ALG**, **Pept-1/ALG** after incubation with red blood cells of rabbit and centrifugation.