Supporting information

A new dipeptide as selective gelator of Cu(II), Zn(II) and Pb(II)

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Fig. S1. Absorption spectra of (a) peptide 2 and (b) peptide 3 with increasing concentrations.



Fig. S2. Plots of the key absorbance intensities as a function of concentration of (a) peptide **2** at 259nm, (b) peptide **3** at 290nm and (c) peptide **4** at 282nm. The linear fitting show that the Beer-Lambert behavior have observed.



Fig. S3: ¹H NMR (400 MHz, CDCl₃, δ in ppm, 298K) spectra of BOC-Gly-Aib-OMe 1.



Fig. S4: ¹³C NMR (100 MHz, CDCl₃, δ in ppm, 298K) spectra of BOC-Gly-Aib-OMe 1.







Fig. S6: Mass Spectra of Boc-Gly-Aib-OMe 1.



Fig. S7: ¹H NMR (500 MHz, CDCl₃, δ in ppm, 298K) spectra Boc-Phe-Aib-OMe 2.



Fig. S8: 13 C NMR (125 MHz, CDCl₃, δ in ppm, 298K) spectra Boc-Phe-Aib-OMe 2.



Fig. S10: FT-IR spectrum of Boc-Phe-Aib-OMe 2.



Fig. S11: ¹H NMR (400 MHz, CDCl₃, δ ppm) spectra of NPG-Phe-OMe 3.



Fig. S12:¹³C NMR (100 MHz, CDCl₃, δ in ppm, 298K) spectra of NPG-Phe-OMe 3.



Fig. S13: IR spectra of NPG-Phe-OMe 3.



Fig. S14: Mass Spectra of NPG-Phe-OMe 3.



Fig. S16: ¹³C NMR (100 MHz, CDCl₃, δ in ppm, 298K) spectra NPG-Tyr-OMe **4**.



Fig. S17: IR spectra of NPG-Tyr-OMe 4.



Fig. S18: Mass Spectra of NPG-Tyr-OMe 4.