

Supplementary Materials: *N*-Heterocyclic Carbene-catalyzed Random Copolymerization of *N*-carboxyanhydrides of α -amino Acids

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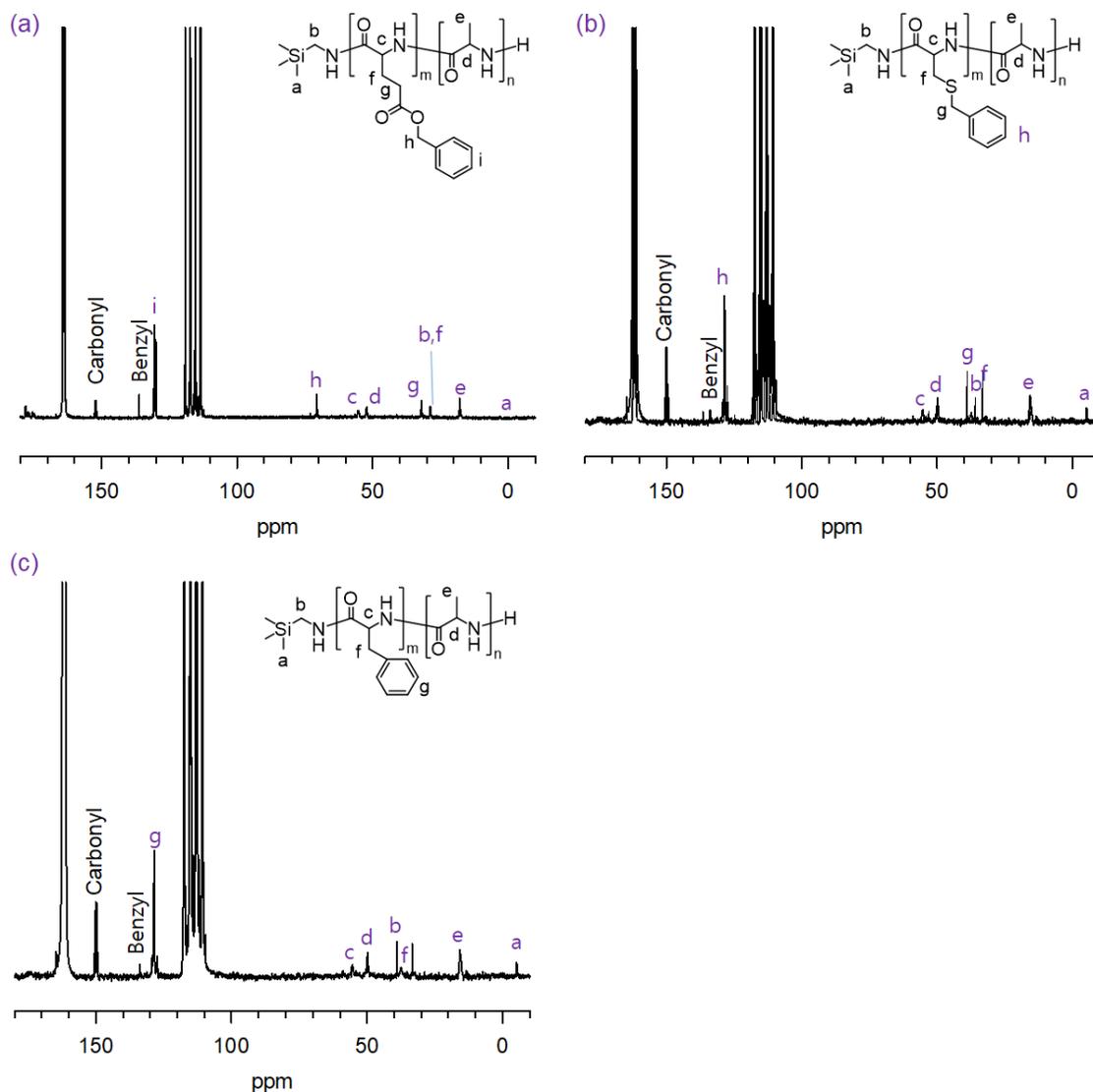


Figure S1. ^{13}C NMR spectra of (a) poly(Ala-co-Bn-Glu), (b) poly(Ala-co-Bn-Cys), and (c) poly(Ala-co-Phe) measured in trifluoroacetic acid (TFA-d).

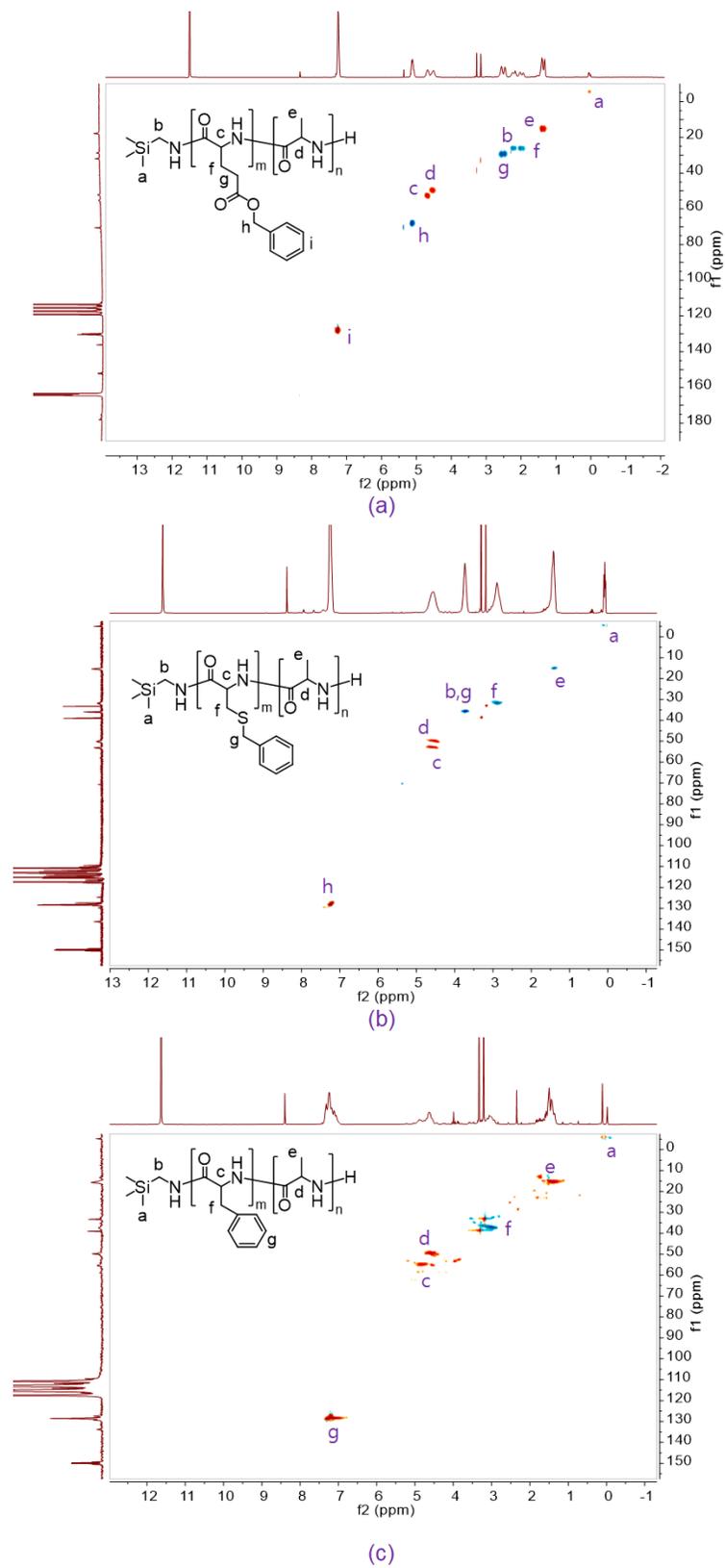
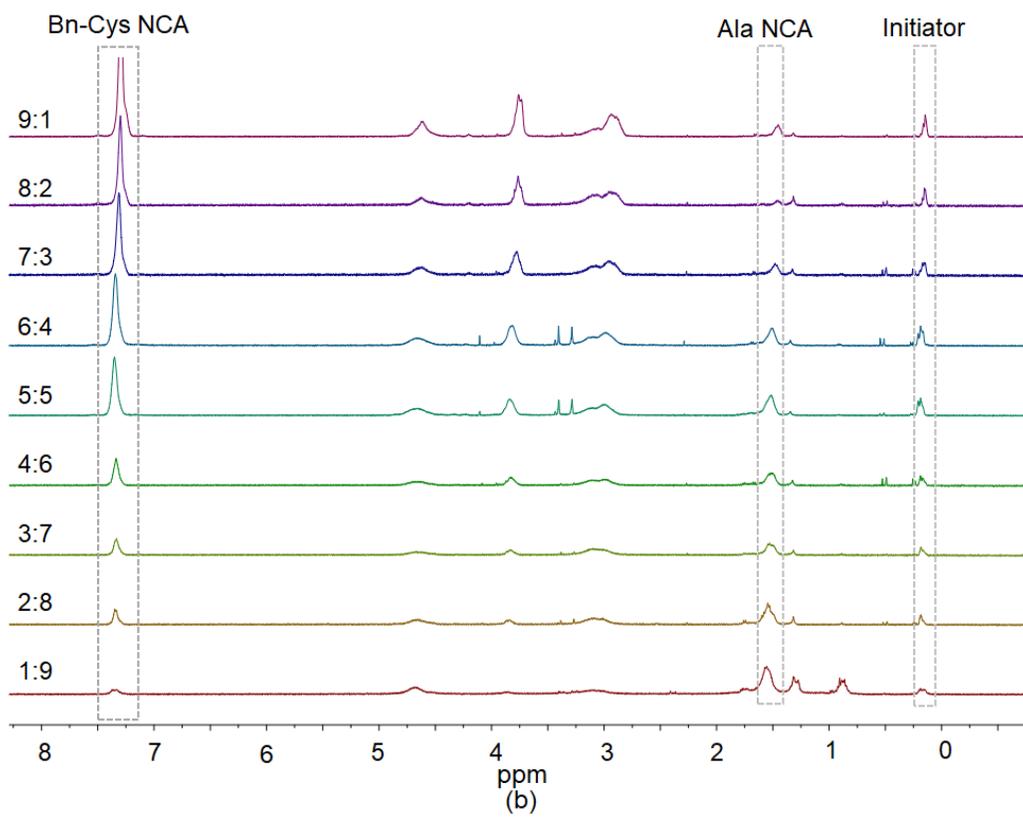
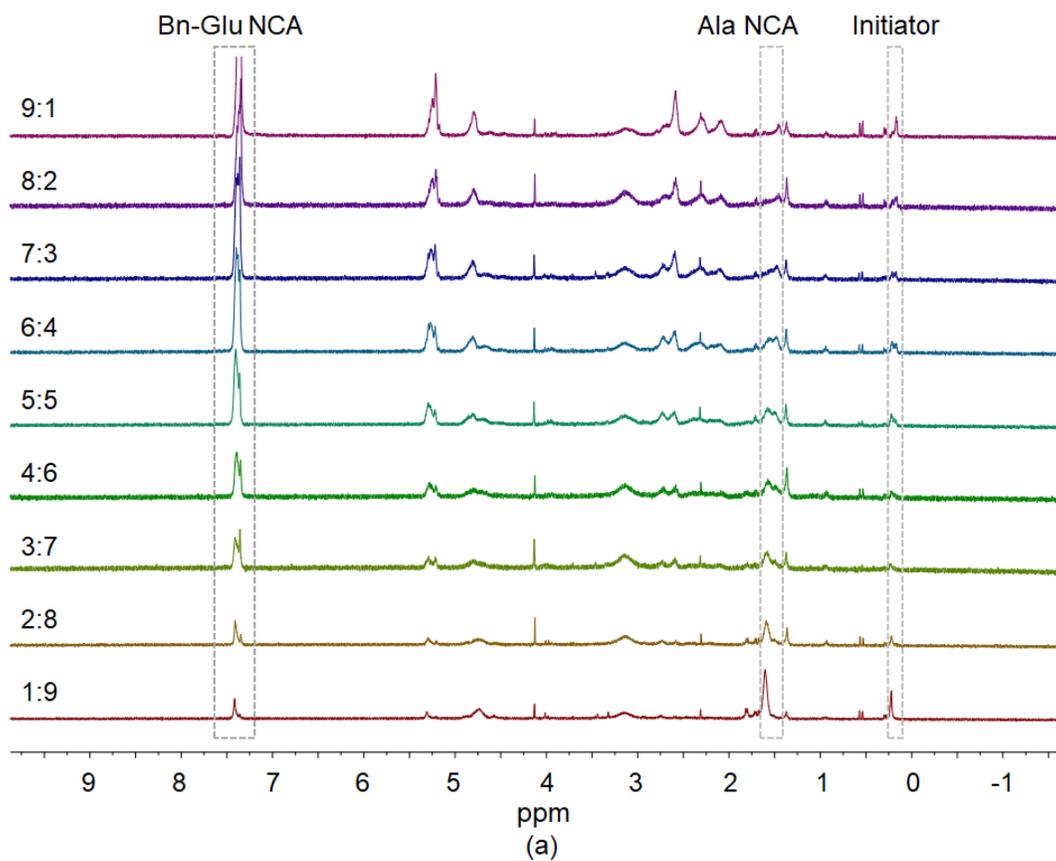


Figure S2. HSQC spectra of (a) poly(Ala-co-Bn-Glu), (b) poly(Ala-co-Bn-Cys), and (c) poly(Ala-co-Phe) measured in trifluoroacetic acid (TFA-d).



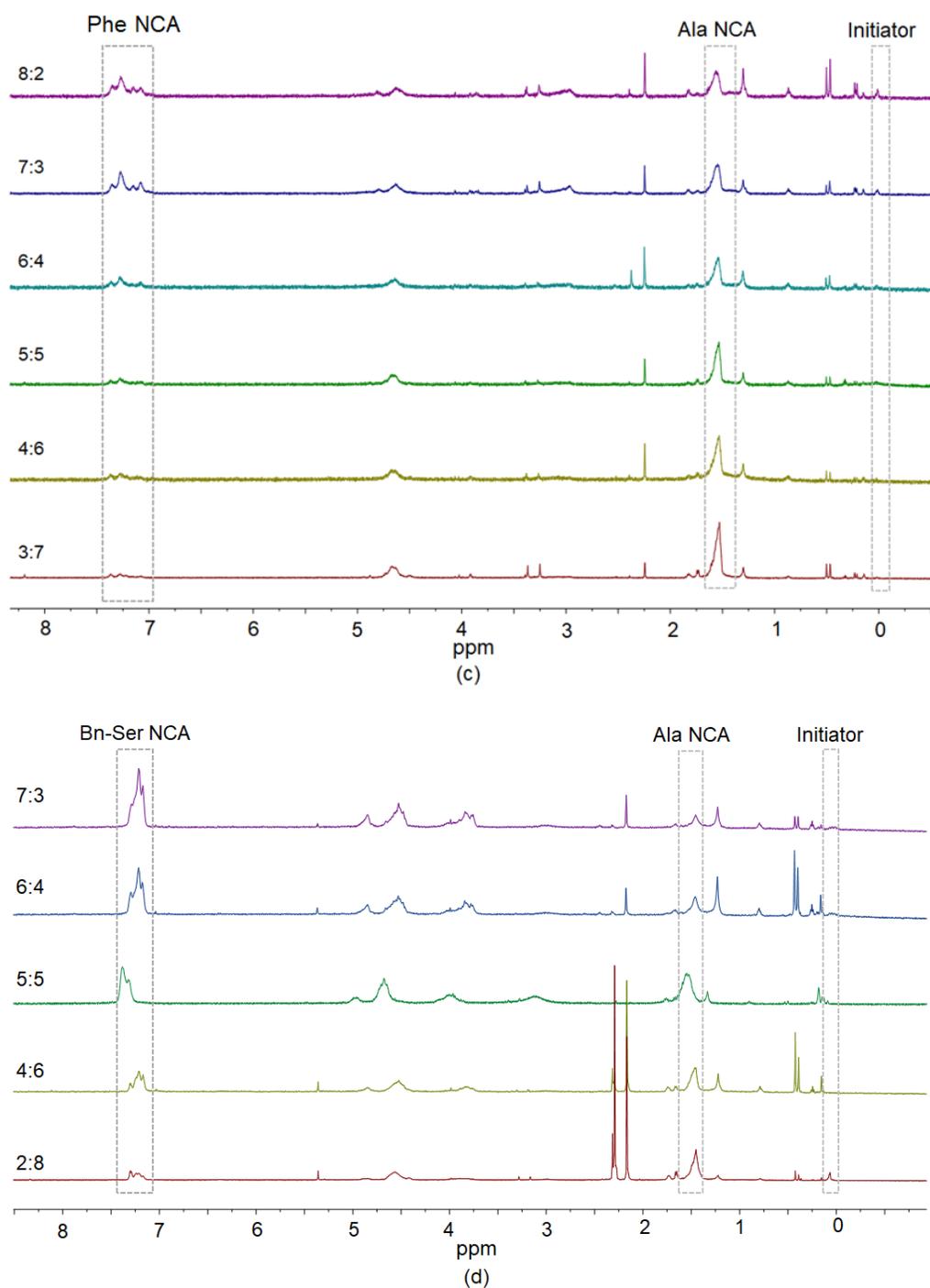


Figure S3. ¹H NMR spectra of (a) poly(Ala-co-Bn-Glu), (b) poly(Ala-co-Bn-Cys), (c) poly(Ala-co-Phe), and (d) poly(Ala-co-Bn-Ser) collected after 5 min of copolymerizations at a wide range of relative composition. Part of the copolymer samples could not be measured due to the low solubility in trifluoroacetic acid (TFA-d).

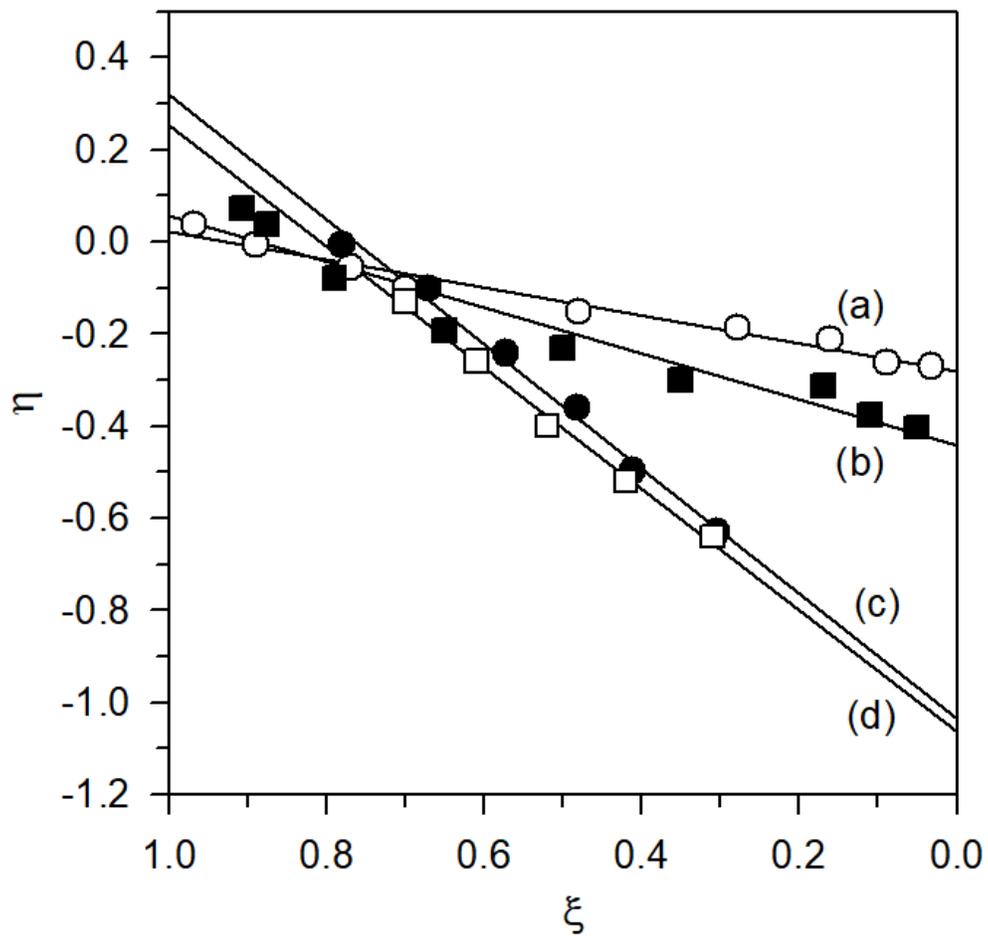


Figure S4. Extended Kelen–Tüdös plots for the determination of the reactivity ratios for (a) Bn-Glu NCA and Ala NCA, (b) Bn-Cys NCA and Ala NCA, (c) Bn-Ser NCA and Ala NCA, and (d) Phe NCA and Ala NCA copolymerization systems, where Ala NCA is monomer 2 in all cases.