Supplementary

Controlled Synthesis of Chiral Polymers for the Kinetic Resolution of Racemic Amino Acids

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Supplementary Information

Fig. S1 The mass spectrum of VBZLysHCl obtained by ESI positive.

Fig. S2 Evolution of GPC trace of PVbZLysBoc mediated by CDB versus polymerization time, (a) 19h, (b) 12h. Experimental condition: [M]/[AlBN]/[CDB] = 200/1/3, 0.2 g in 0.2 mL of dioxane, at 70 °C.

Fig. S3 Evolution of HPLC trace of the crystal Glu·HCl mediated by P1 at a fixed weight concentration of 0.5 wt% mentioned in Table 2. Peak 1 is corresponding to R-Glu·HCl, and peak 2 is corresponding to S-Glu·HCl.

Fig. S4 The absorbance (A) of polymeric inhibitors versus concentrations at 248 nm in 5 M hydrochloric acid, and the extinction coefficient \( \varepsilon_{248} = 11400 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1} \).

Fig. S5 The absorbance (A) of polymeric inhibitors versus concentrations at 212 nm in 5 M hydrochloric acid, and the extinction coefficient \( \varepsilon_{212} = 11900 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1} \).
Fig. S6 The absorbance (A) of Glu·HCl versus concentrations at 212 nm in 5 M hydrochloric acid, and the extinction coefficient $\varepsilon_{G^{212}} = 71.3 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$. 