

Supporting Information

A Model Chiral Graft Copolymer Demonstrates Evidence of  
the Transmission of Stereochemical Information from the Side  
Chain to the Main Chain on a Nanometer Scale

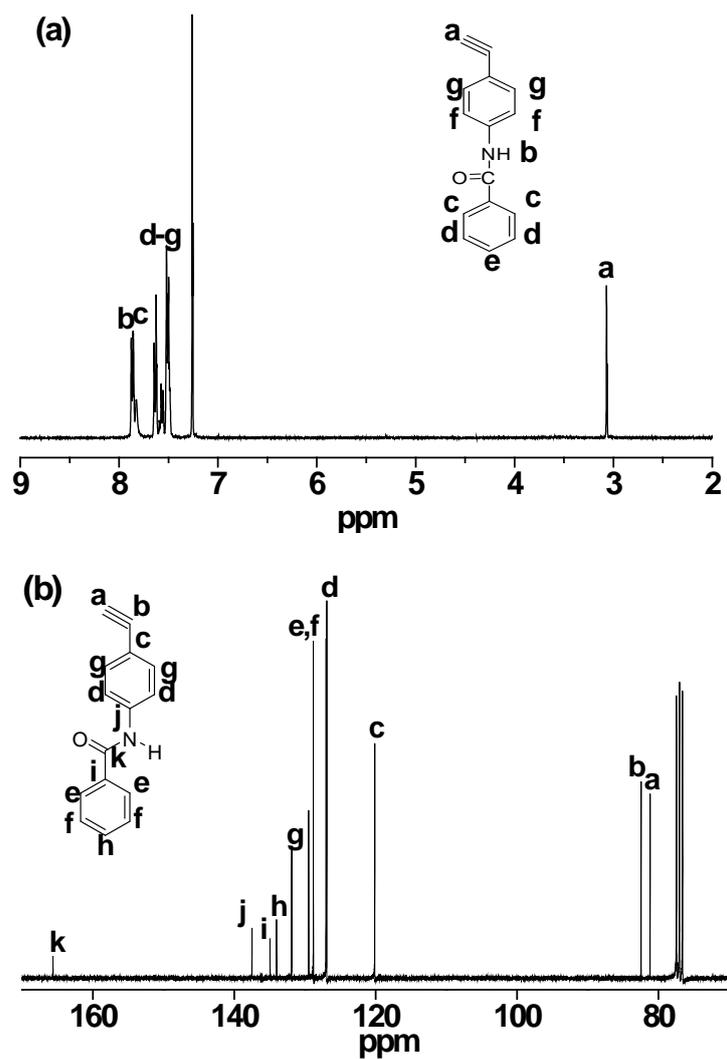
*Priyank N. Shah,<sup>†</sup> Chang-Geun Chae,<sup>†</sup> Joonkeun Min,<sup>†</sup> Ryotaro Shimada,<sup>‡</sup> Toshifumi Satoh,<sup>‡</sup> Toyoji*

*Kakuchi<sup>‡</sup> and Jae-Suk Lee<sup>\*†</sup>*

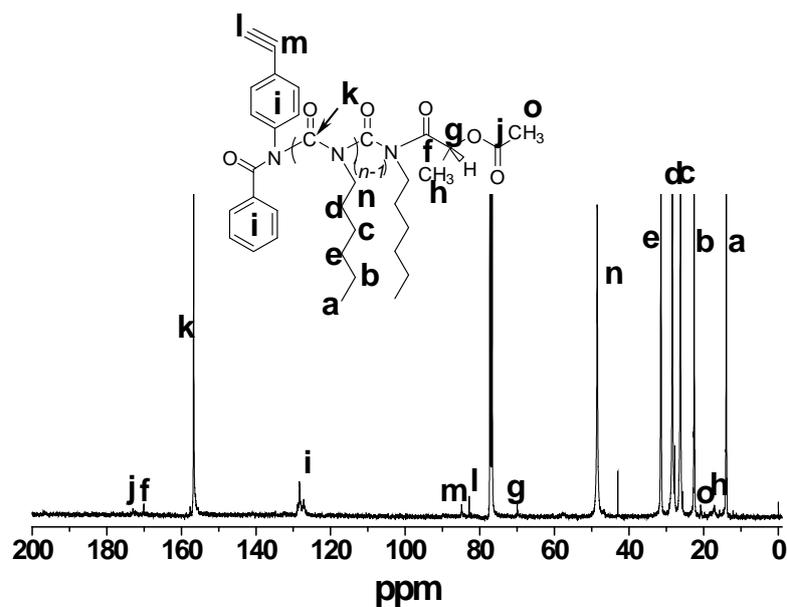
<sup>†</sup> Department of Nanobio Materials and Electronics, School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), 123 Cheomdangwagi-ro, Buk-gu, Gwangju 500-712, Republic of Korea

<sup>‡</sup> Division of Biotechnology and Macromolecular Chemistry, Faculty of Engineering, Hokkaido University, Kita-ku, Sapporo 060-8628, Japan

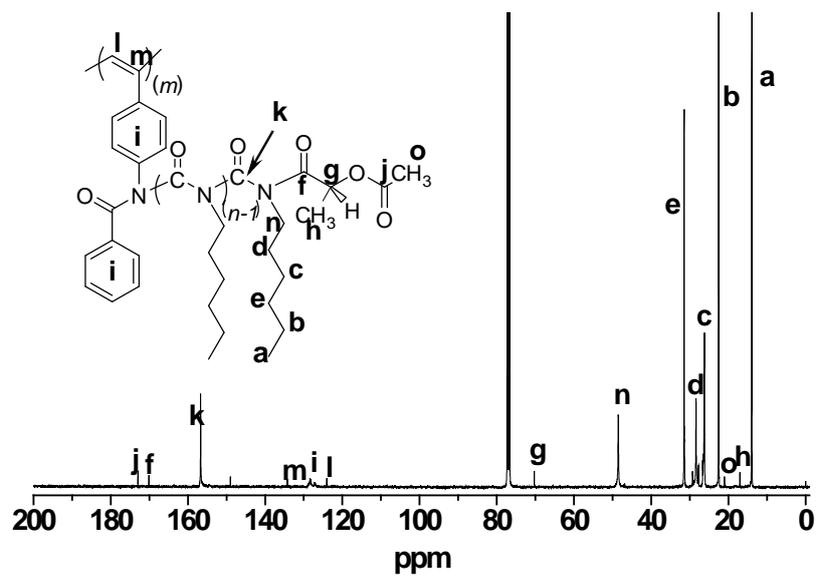
\* E-mail: [jslee@gist.ac.kr](mailto:jslee@gist.ac.kr); Tel: (+82)-062-715-2306; Fax: (+82)-062-715-2304



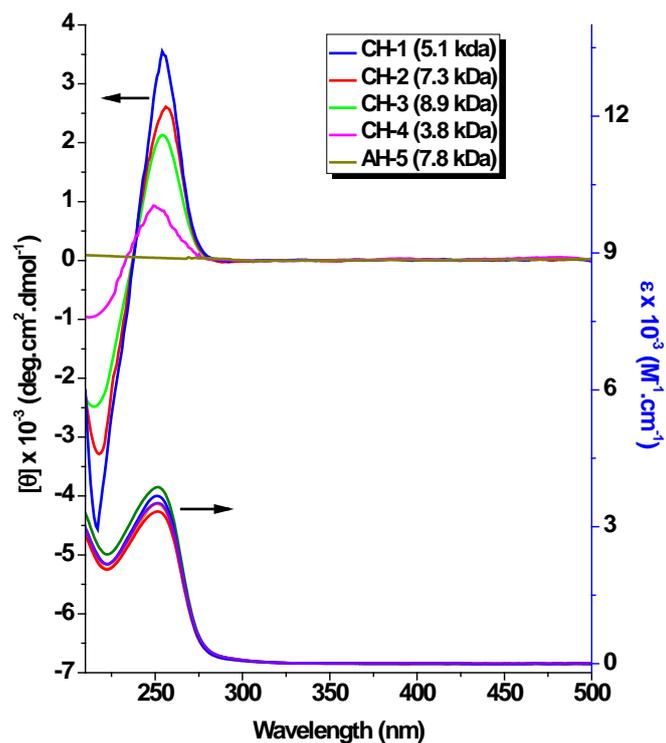
**Figure S1.** (a) <sup>1</sup>H NMR of and (b) <sup>13</sup>C NMR of 4-EPBA in CDCl<sub>3</sub>.



**Figure S2.**  $^{13}\text{C}$  NMR of chiral PHIC macromonomer (CH-1) in  $\text{CDCl}_3$ .



**Figure S3.**  $^{13}\text{C}$  NMR of chiral PPA-g-PHIC graft copolymer (CG-1) in  $\text{CDCl}_3$ .



**Figure S4.** CD (upper) and UV (lower) spectra of chiral/achiral PHIC macromonomers with different MWs in THF (1 mg/mL; cell path length: 0.5 cm; 25 °C). The molar ellipticity ( $[\theta]$ ) and molar absorption coefficient ( $\epsilon$ ) were calculated using the molar concentration of HIC (210-300 nm: the absorption region of PHIC backbone).