ATR-FTIR Spectra

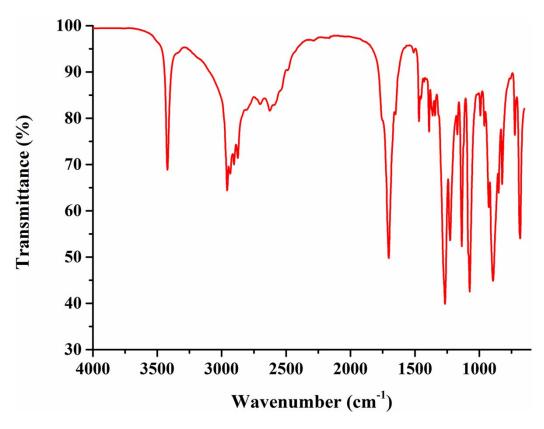


Figure S1. ATR-FTIR spectrum of L-2-hydroxy-4-methylpentanoic acid (2)

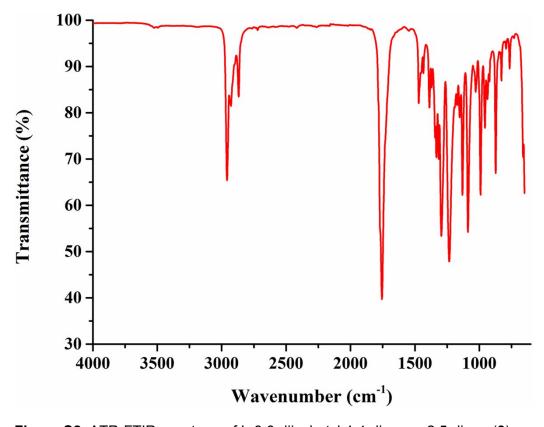


Figure S2. ATR-FTIR spectrum of L-3,6-diisobutyl-1,4-dioxane-2,5-dione (3)

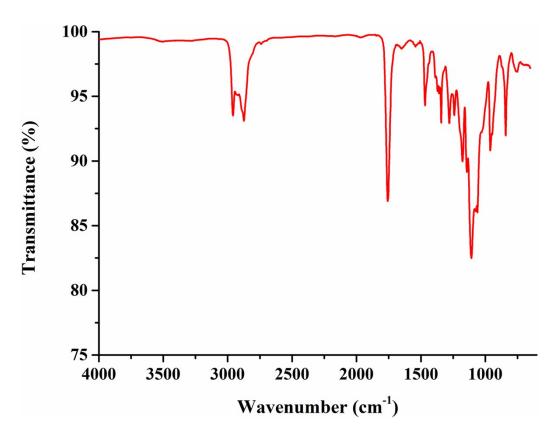


Figure S3. ATR-FTIR spectrum of MePEG-PDIBG 6

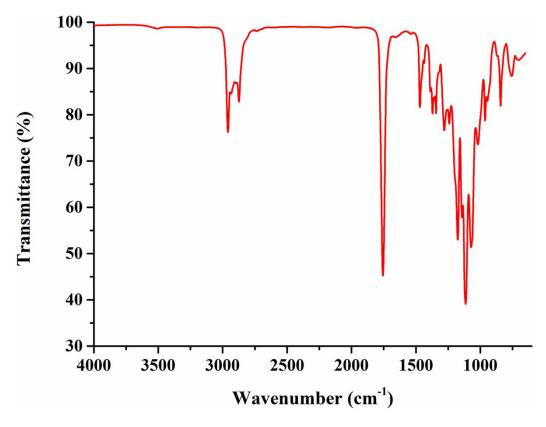


Figure S4. ATR-FTIR spectrum of MePEG-PDIBG 7

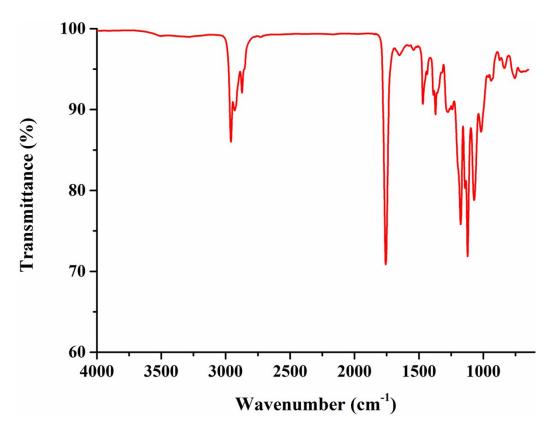


Figure S5. ATR-FTIR spectrum of MePEG-PDIBG 8

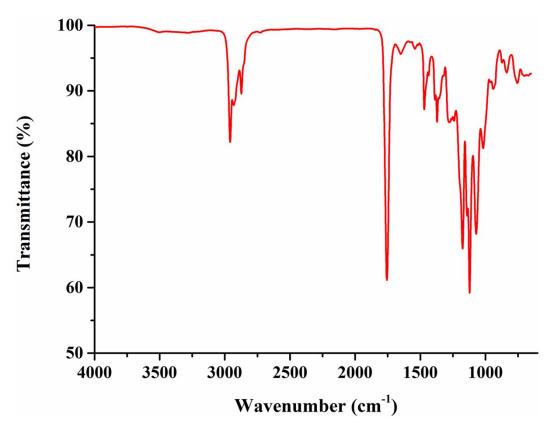


Figure S6. ATR-FTIR spectrum of MePEG-PDIBG 11

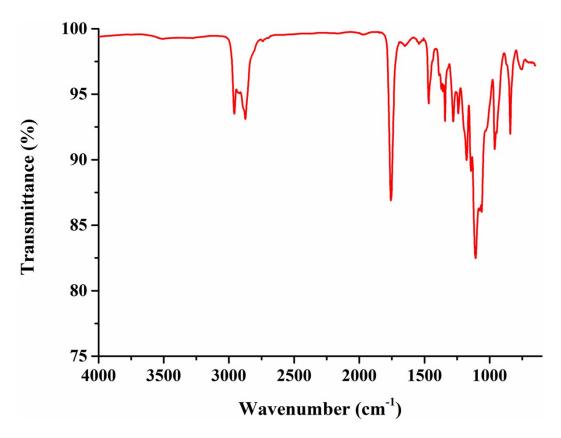


Figure S7. ATR-FTIR spectrum of PDIBG-PEG-PDIBG 12

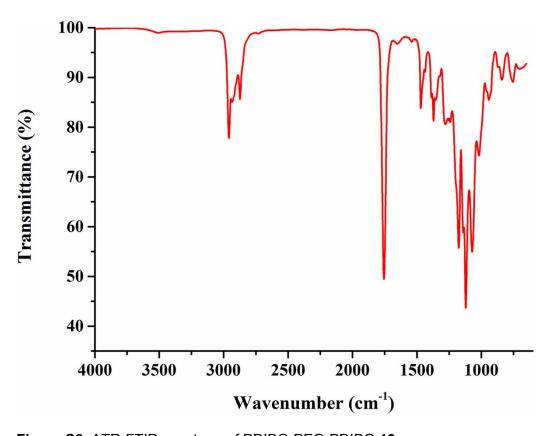


Figure S8. ATR-FTIR spectrum of PDIBG-PEG-PDIBG 13

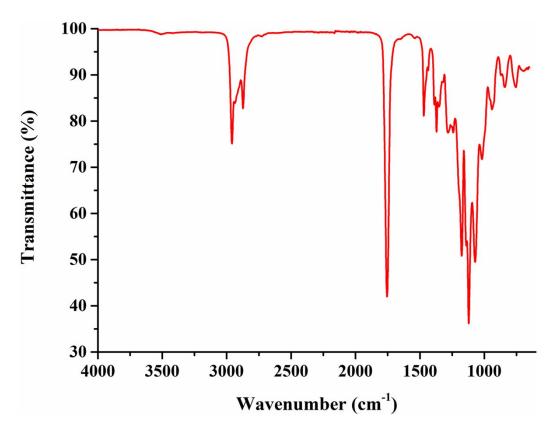


Figure \$9. ATR-FTIR spectrum of PDIBG-PEG-PDIBG 14

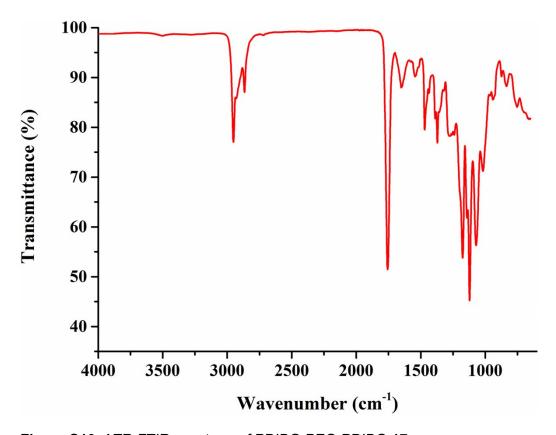


Figure \$10. ATR-FTIR spectrum of PDIBG-PEG-PDIBG 17

¹H NMR Spectra

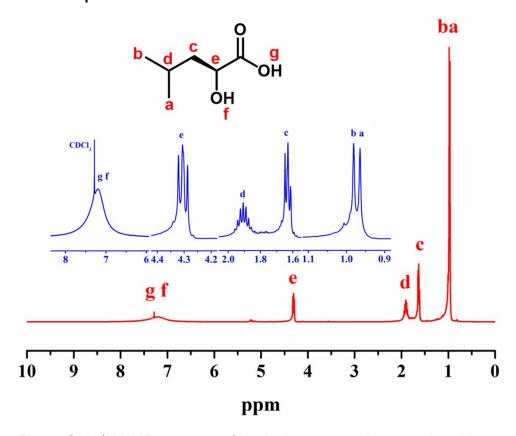


Figure S11. ¹H NMR spectrum of L-2-hydroxy-4-methylpentanoic acid (2)

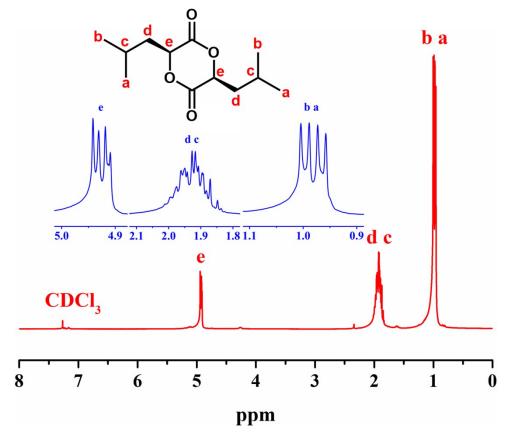


Figure S12. ¹H NMR spectrum of L-3,6-diisobutyl-1,4-dioxane-2,5-dione (3)

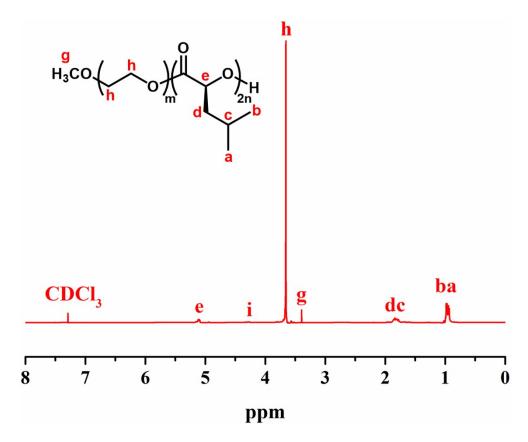


Figure S13. ¹H NMR spectrum of MePEG-PDIBG 6

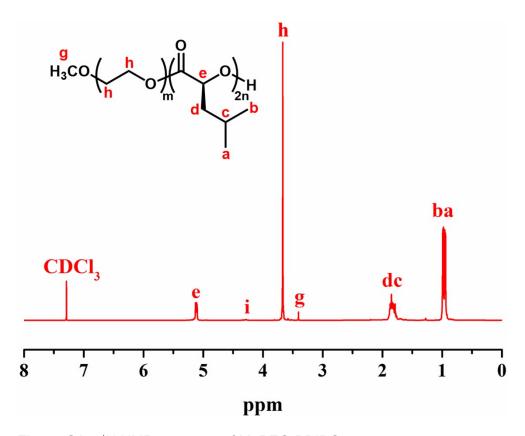


Figure S14. ¹H NMR spectrum of MePEG-PDIBG **7**

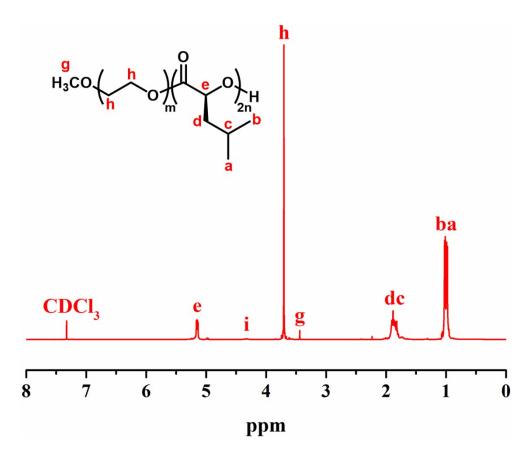


Figure \$15. 1H NMR spectrum of MePEG-PDIBG 8

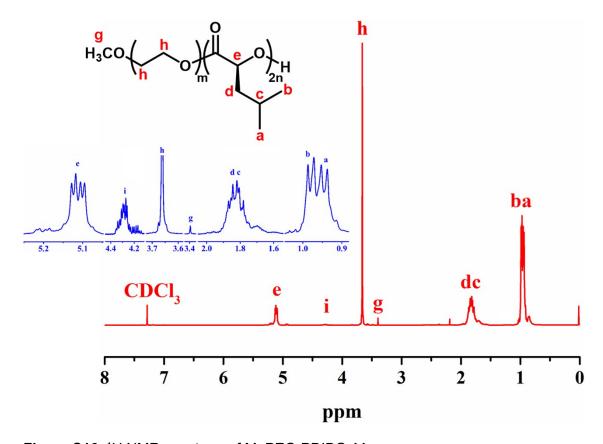


Figure S16. ¹H NMR spectrum of MePEG-PDIBG 11

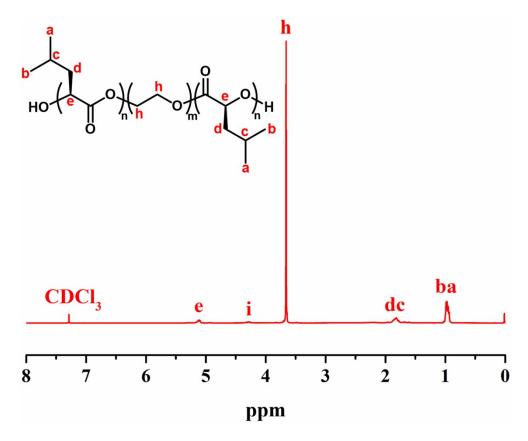


Figure S17. ¹H NMR spectrum of PDIBG-PEG-PDIBG 12

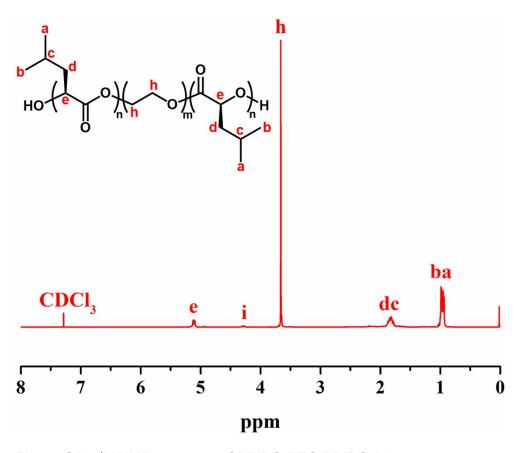


Figure S18. ¹H NMR spectrum of PDIBG-PEG-PDIBG 13

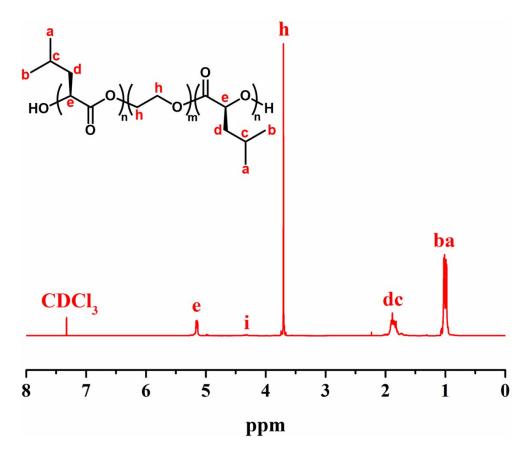


Figure \$19. ¹H NMR spectrum of PDIBG-PEG-PDIBG **14**

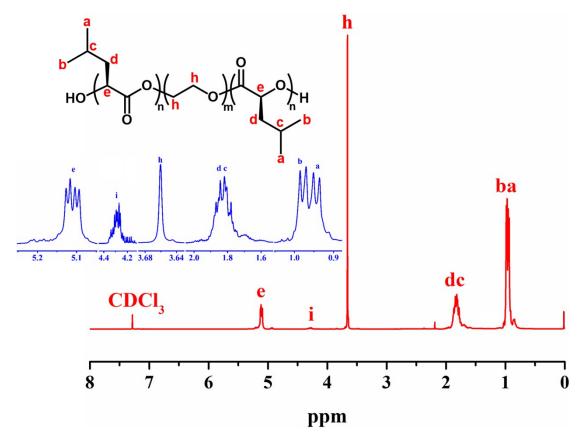


Figure S20. ¹H NMR spectrum of PDIBG-PEG-PDIBG 17

¹³C NMR Spectra

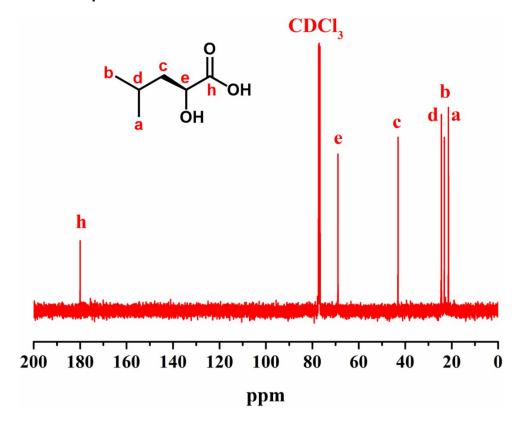


Figure S21. ¹³C NMR spectrum of L-2-hydroxy-4-methylpentanoic acid (2)

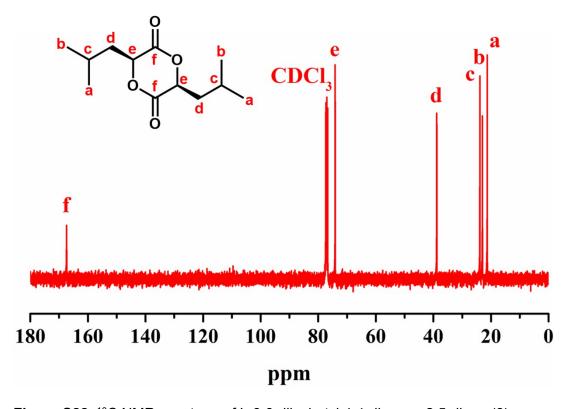


Figure S22. ¹³C NMR spectrum of L-3,6-diisobutyl-1,4-dioxane-2,5-dione (3)

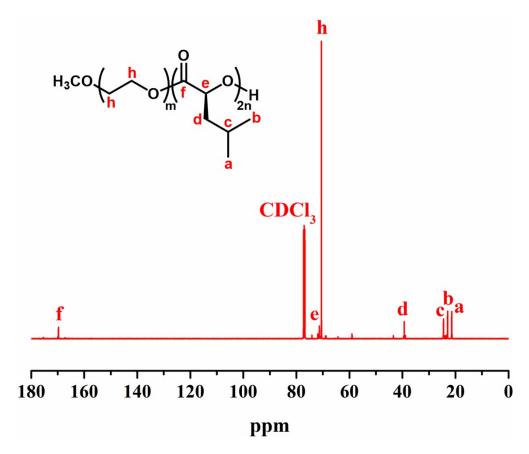


Figure S23. ¹³C NMR spectrum of MePEG-PDIBG 6

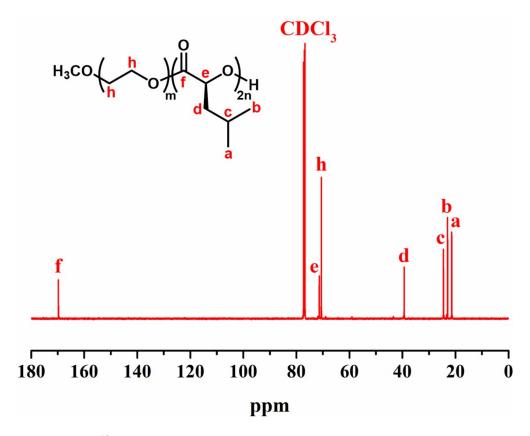


Figure S24. ¹³C NMR spectrum of MePEG-PDIBG **7**

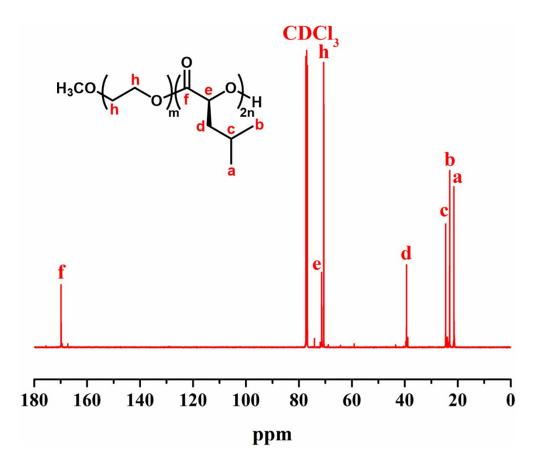


Figure S25. ¹³C NMR spectrum of MePEG-PDIBG 8

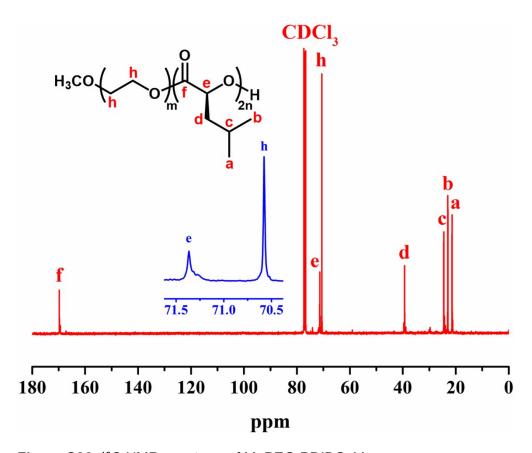


Figure S26. ¹³C NMR spectrum of MePEG-PDIBG 11

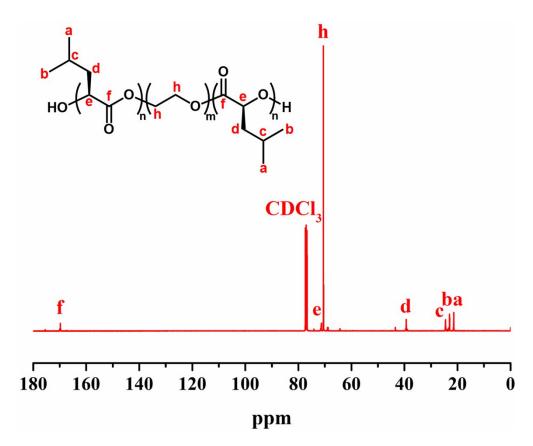


Figure S27. ¹³C NMR spectrum of PDIBG-PEG-PDIBG 12

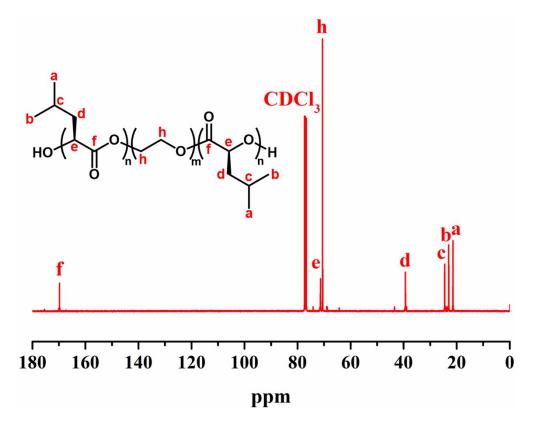


Figure S28. ¹³C NMR spectrum of PDIBG-PEG-PDIBG 13

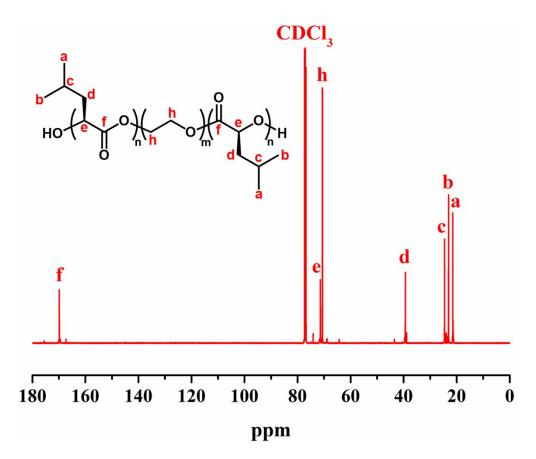


Figure S29. ¹³C NMR spectrum of PDIBG-PEG-PDIBG 14

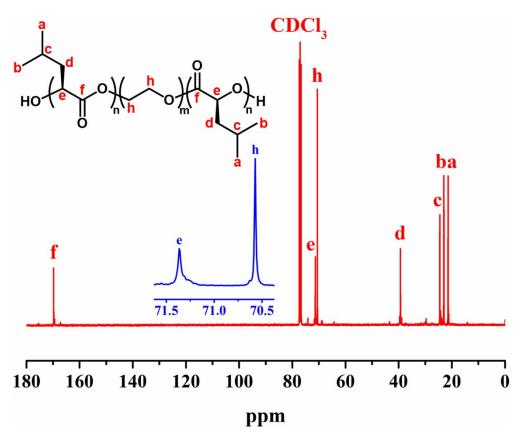


Figure S30. ¹³C NMR spectrum of PDIBG-PEG-PDIBG 17

Optical Microscope

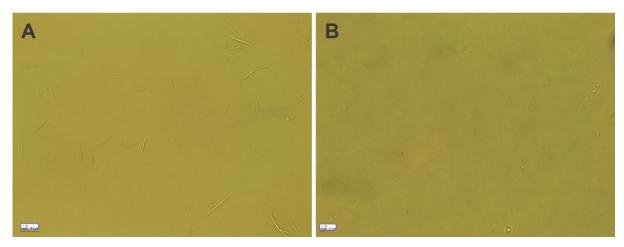


Figure S31. The particle prepared by single emulsion solvent evaporation technique using ethyl acetate (A, scale bar: $20.2~\mu m$) and dichloromethane (B, scale bar: $4.7~\mu m$) as a solvent. There are images of the paclitaxel that can't be loaded into the particle (A).