

Electronic supplementary information (ESI)

Based on the host-guest chemistry to build smart Janus-like supramolecular polymer and Its Self-Assembly

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TABLE S1. GPC Characterization Result of Prepared polymer Chains

Sample	Mn	PDI
β-CD-(NIPAAm) ₄	5623	1.27
Ad-PtBMA	6825	1.19
alkyne-(PtBMA-Br) ₂	13953	1.23
Ad-(PtBMA) ₃	20578	1.21
Ad-(PtBMA) ₇	48084	1.34

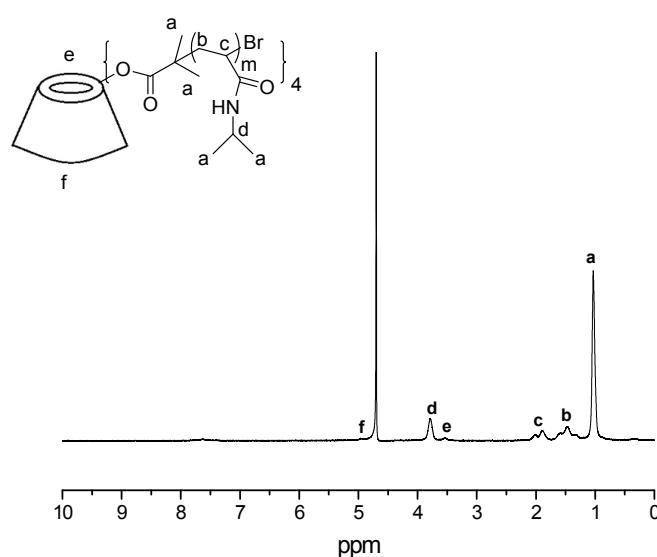


Figure S1 The ¹H NMR spectrum of β-CD-(PNIPAAm)₄(D₂O, 400 MHz, 25 °C)

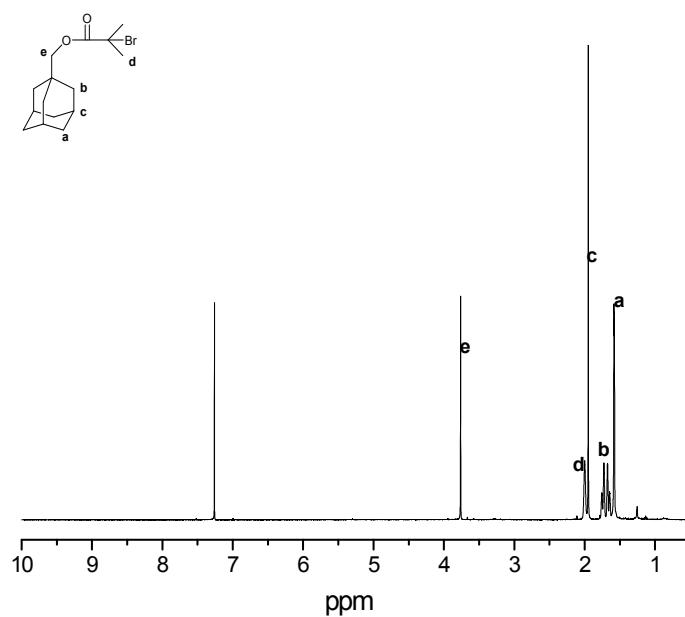


Figure S2 The ^1H NMR spectrum of Ad-Br (CD_3Cl , 400 MHz, 25 °C)

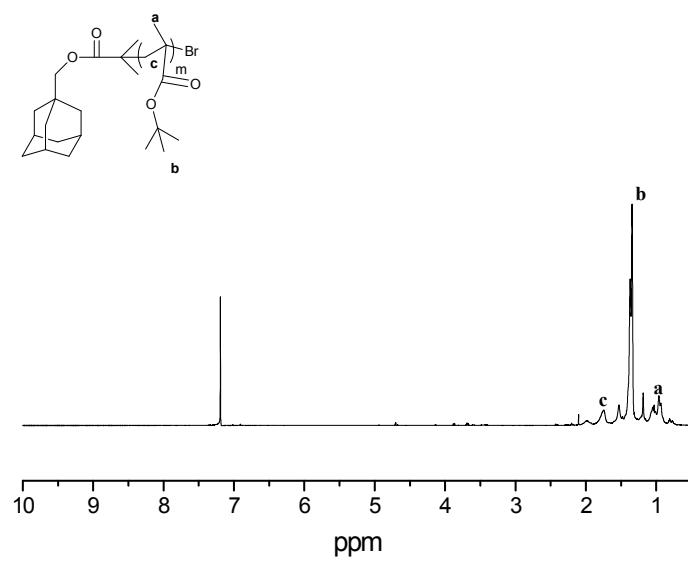


Figure S3 The ^1H NMR spectrum of Ad-PtBMA-Br (CD_3Cl , 400 MHz, 25 °C)

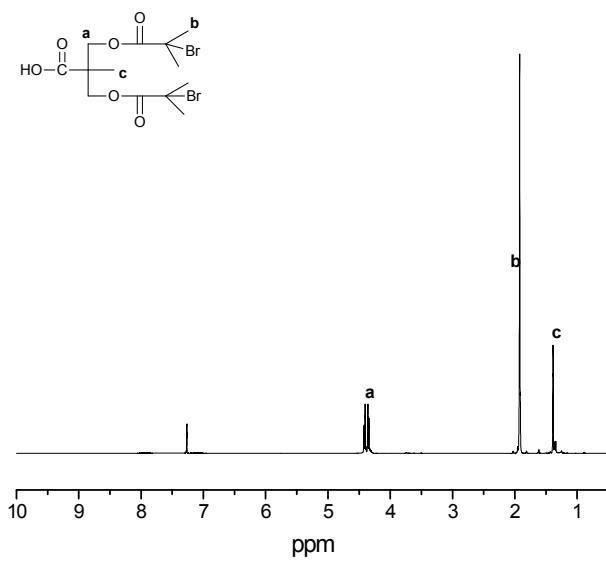


Figure S4 The ^1H NMR spectrum of product BPA (CD_3Cl , 400 MHz, 25 °C)

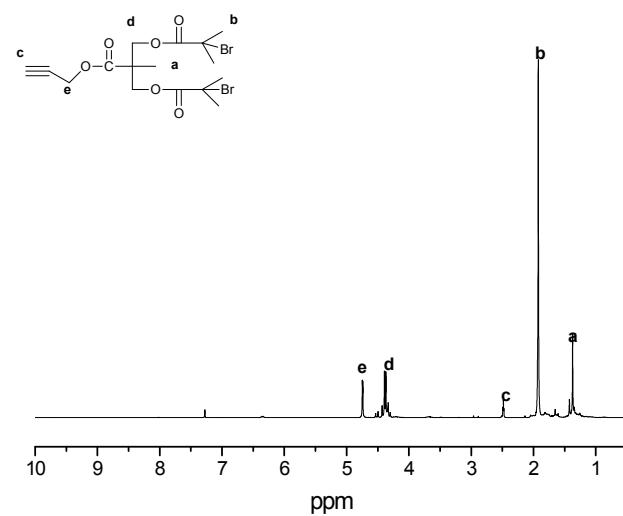


Figure S5 The ^1H NMR spectrum of PBMP (CD_3Cl , 400 MHz, 25 °C)

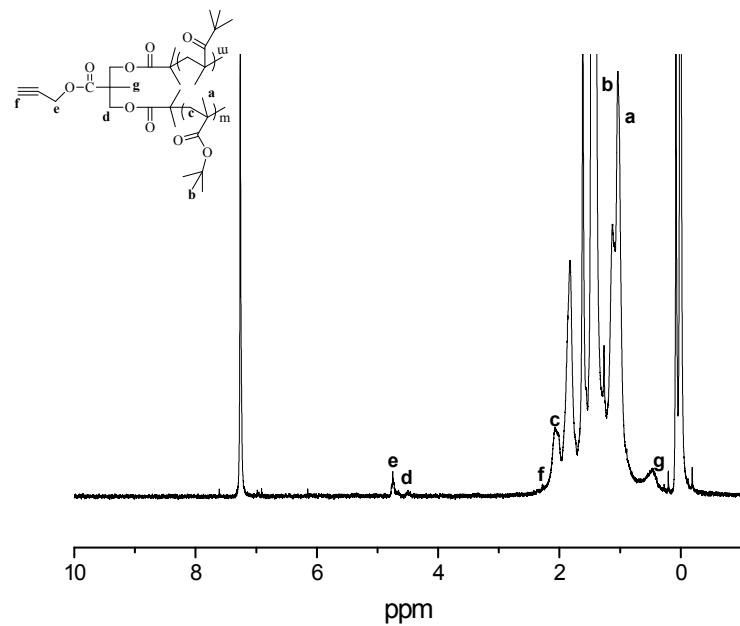


Figure S6 The ^1H NMR spectrum of alkyne-(PtBMA-Br)₂ (CD_3Cl , 400 MHz, 25 °C)

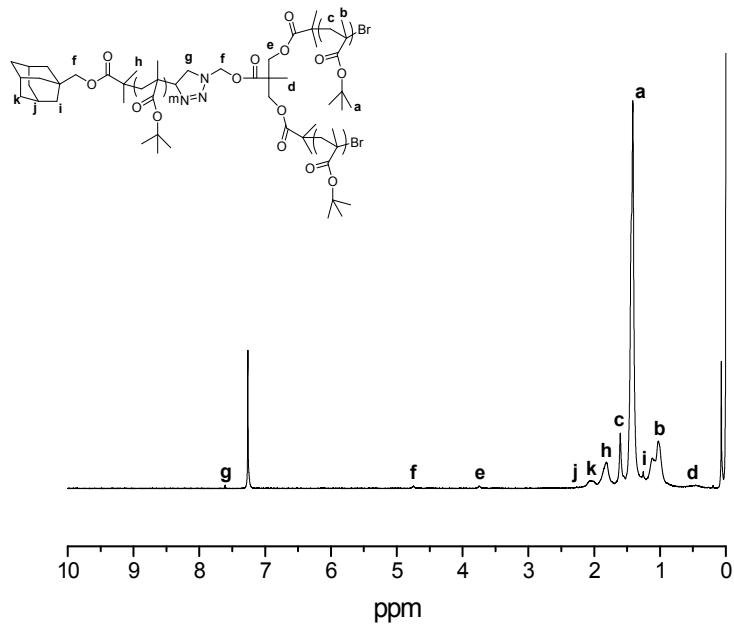


Figure S7 The ^1H NMR spectrum of Ad-(PtBMA)₃ (CD_3Cl , 400 MHz, 25 °C)

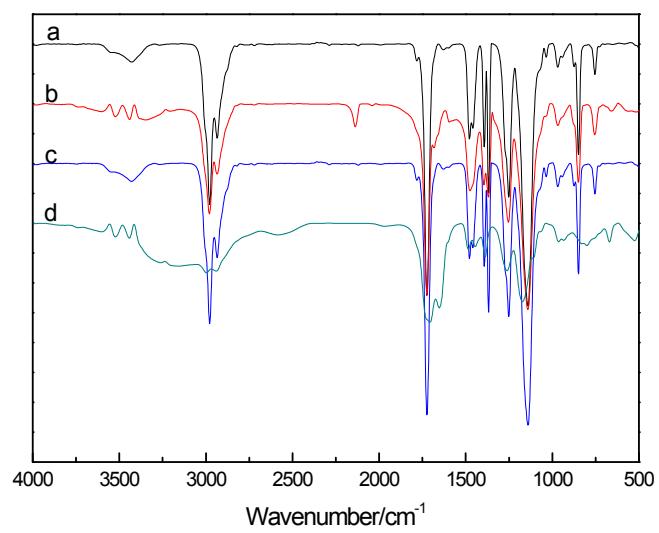


Figure S8 The IR spectrum of polymer

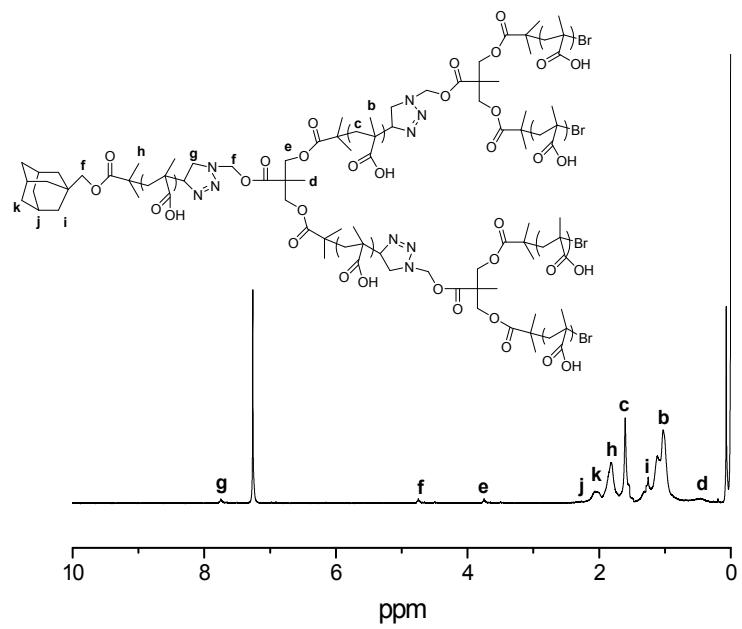


Figure S9 The ¹H NMR spectrum of product Ad-(PMAA)₇ (CD_3Cl , 400 MHz, 25 °C)