

Electronic Supplementary Information

Synthesis of Functional Building Blocks for Type III-B Rotaxane Dendrimer

Chak-Shing Kwan,¹ Watson K.-W. Ho,² Yanyan Chen,¹ Zongwei Cai,¹ Ken Cham-Fai Leung^{*1}

¹ State Key Laboratory of Environmental and Biological Analysis, Department of Chemistry, The Hong Kong Baptist University, Kowloon Tong, Kowloon, P. R. China.

² Department of Chemistry, The Chinese University of Hong Kong, Shatin, NT, P. R. China.

E-mail: c fleung@hkbu.edu.hk

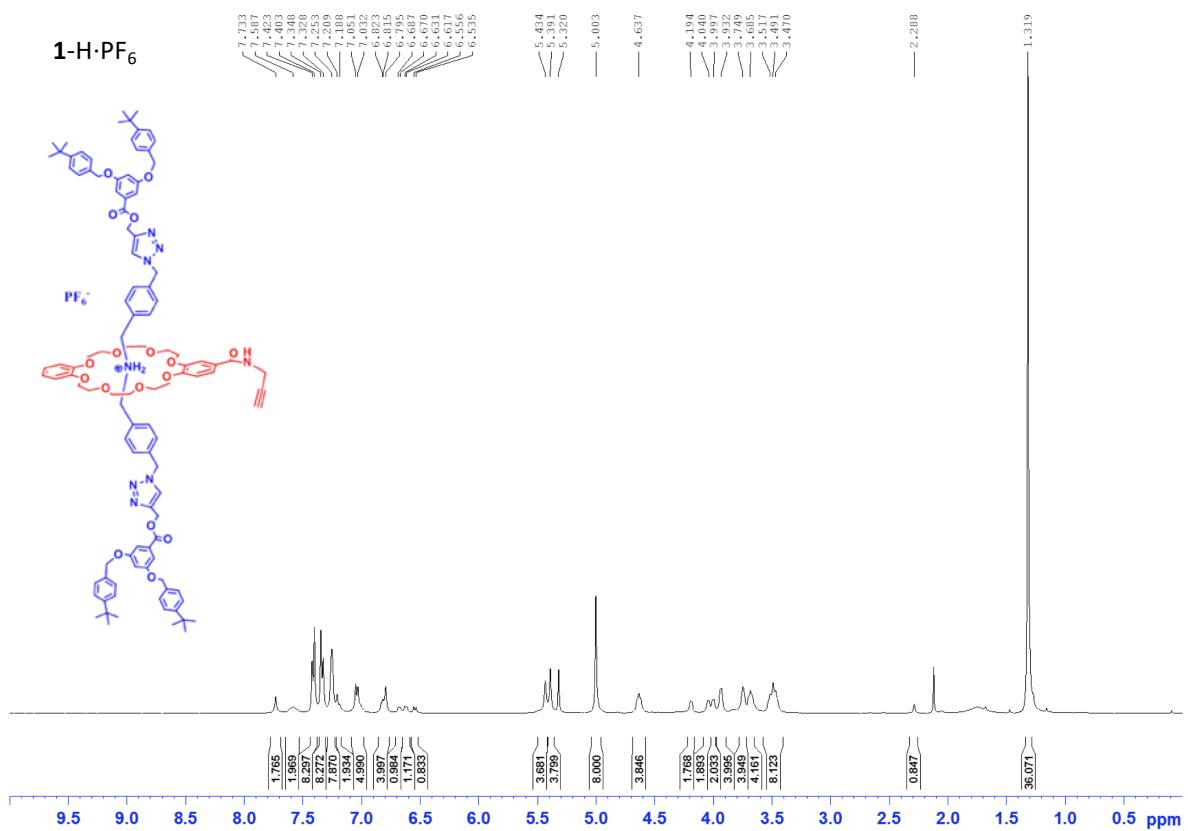


Figure S1. ^1H NMR spectrum of the G1 rotaxane dendron-acetylene **1**-H·PF₆.

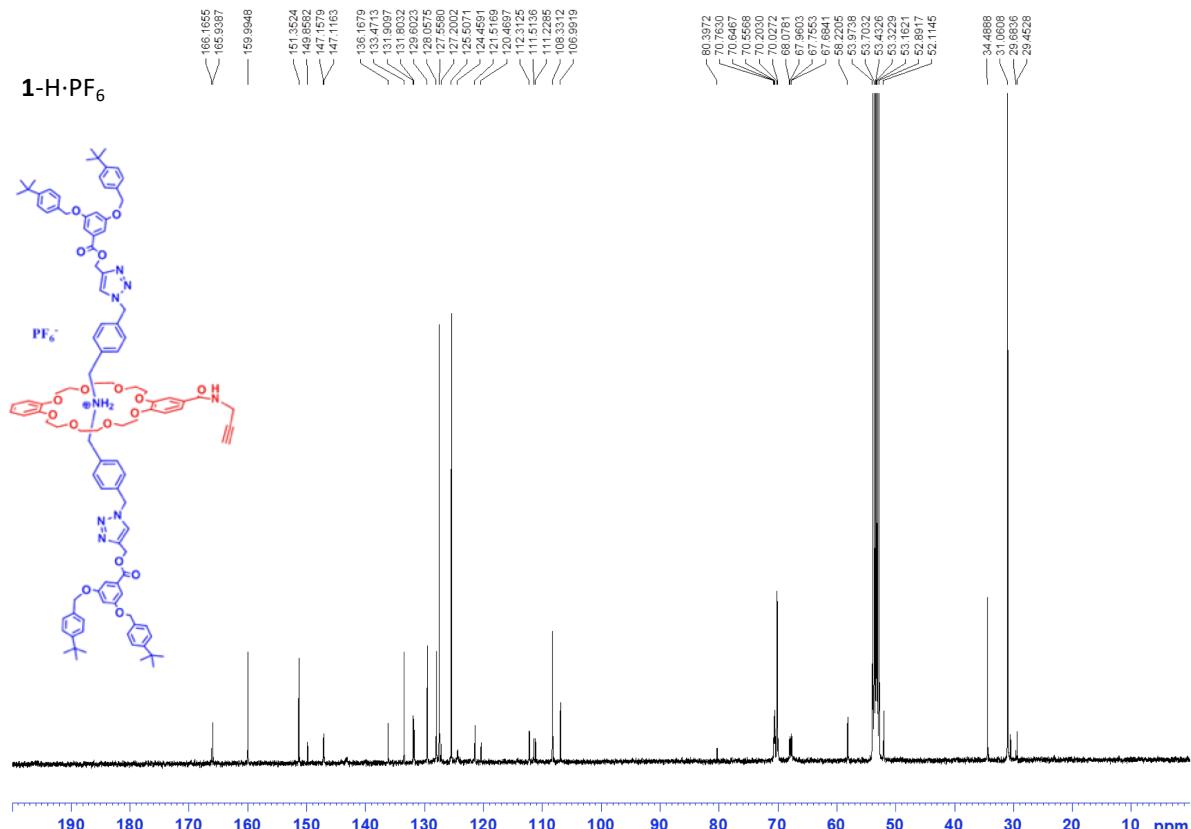


Figure S2. ^{13}C NMR spectrum of the G1 rotaxane dendron-acetylene **1**-H·PF₆.

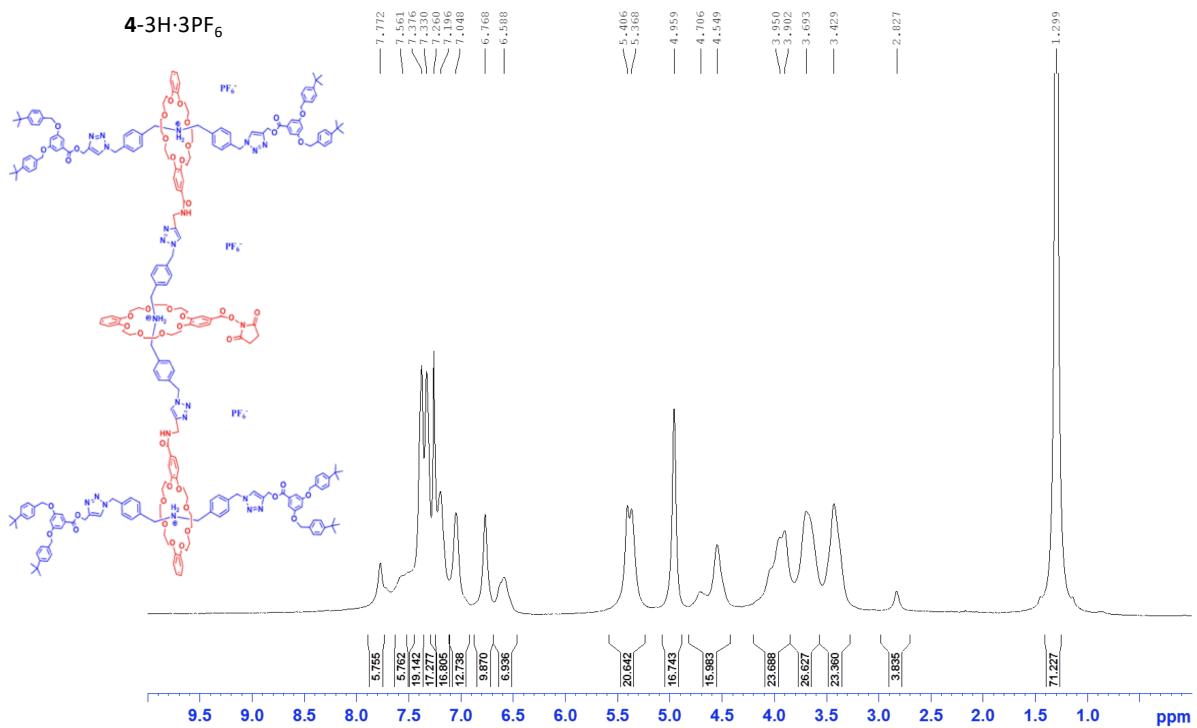


Figure S3. ¹H NMR spectrum of the G2 rotaxane dendron-OSu **4-3H·3PF₆**.

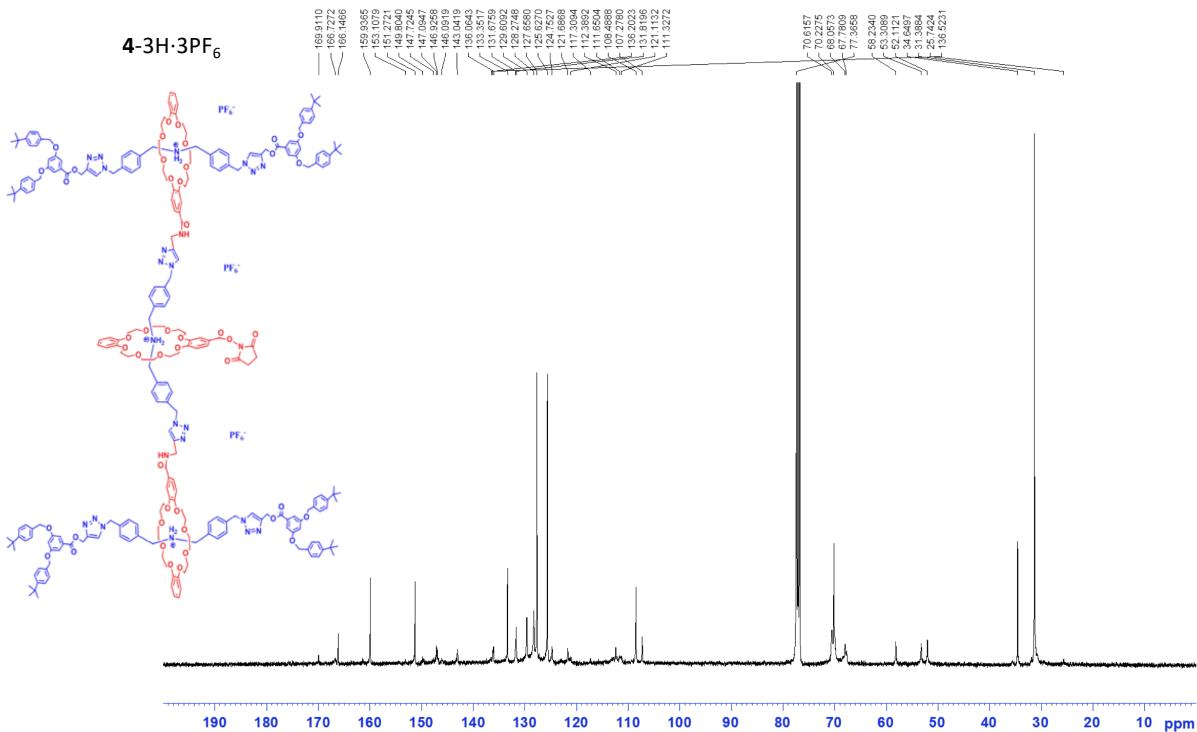


Figure S4. ¹³C NMR spectrum of the G2 rotaxane dendron-OSu **4-3H·3PF₆**.

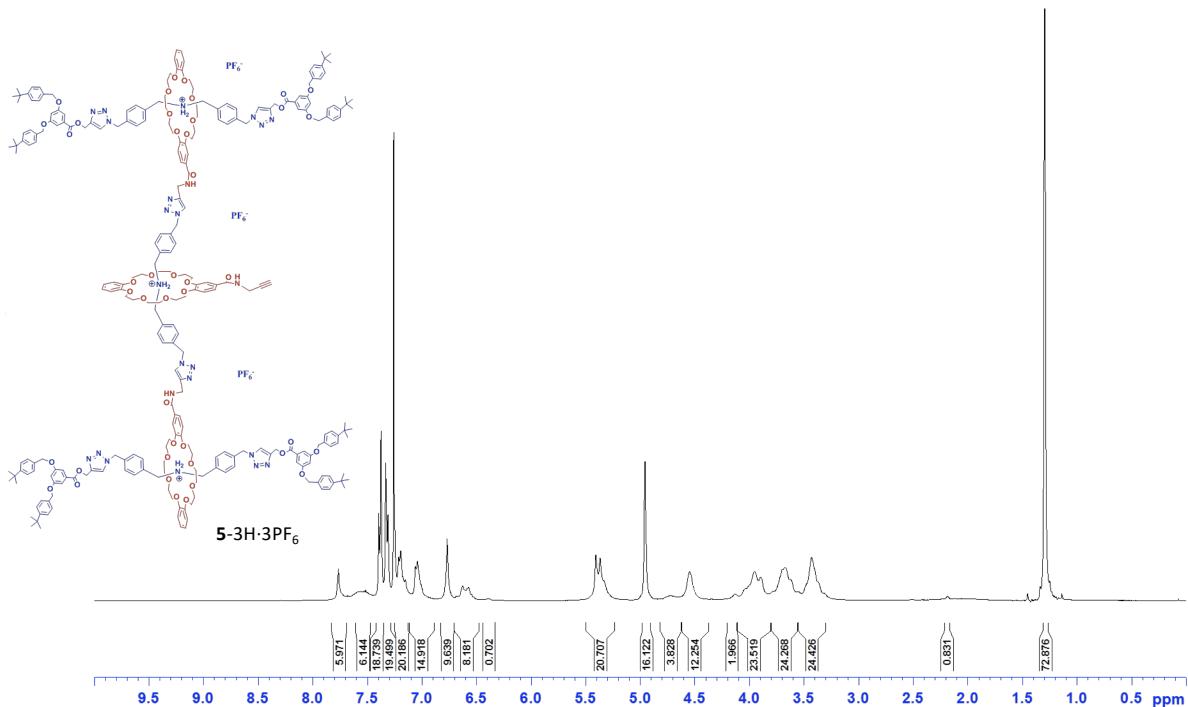


Figure S5. ^1H NMR spectrum of the G2 rotaxane dendron-acetylene **5**-3H·3PF₆.

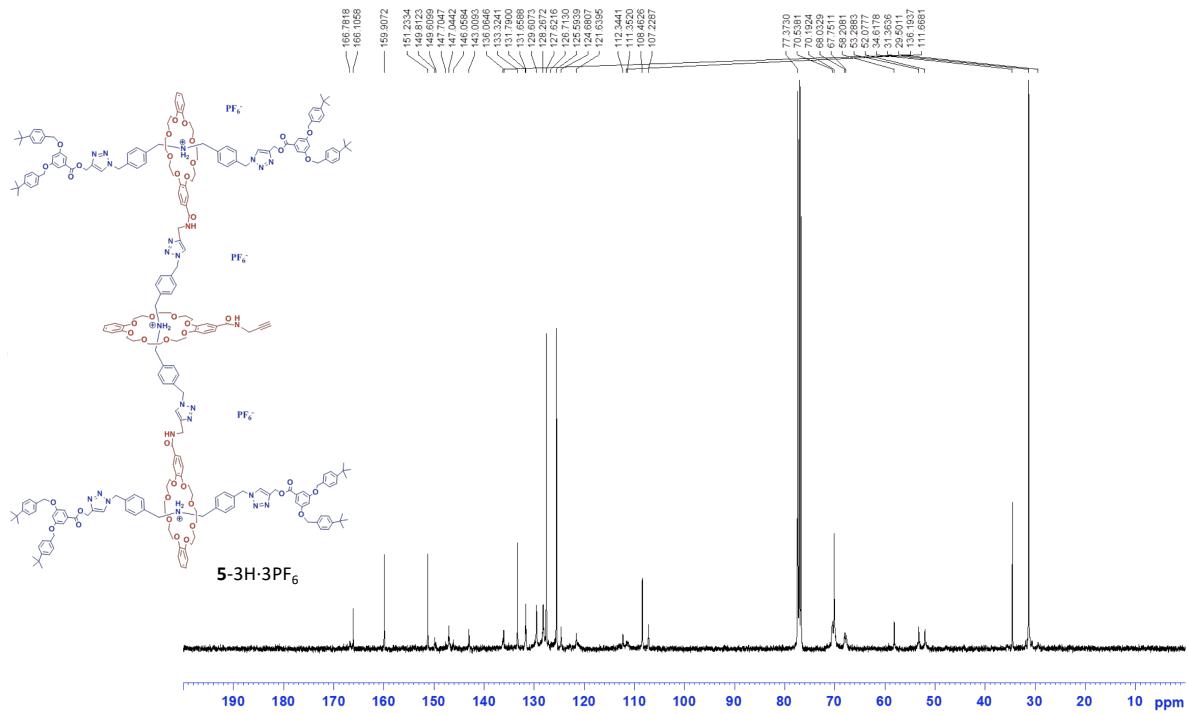


Figure S6. ^{13}C NMR spectrum of the G2 rotaxane dendron-acetylene **5**-3H·3PF₆.

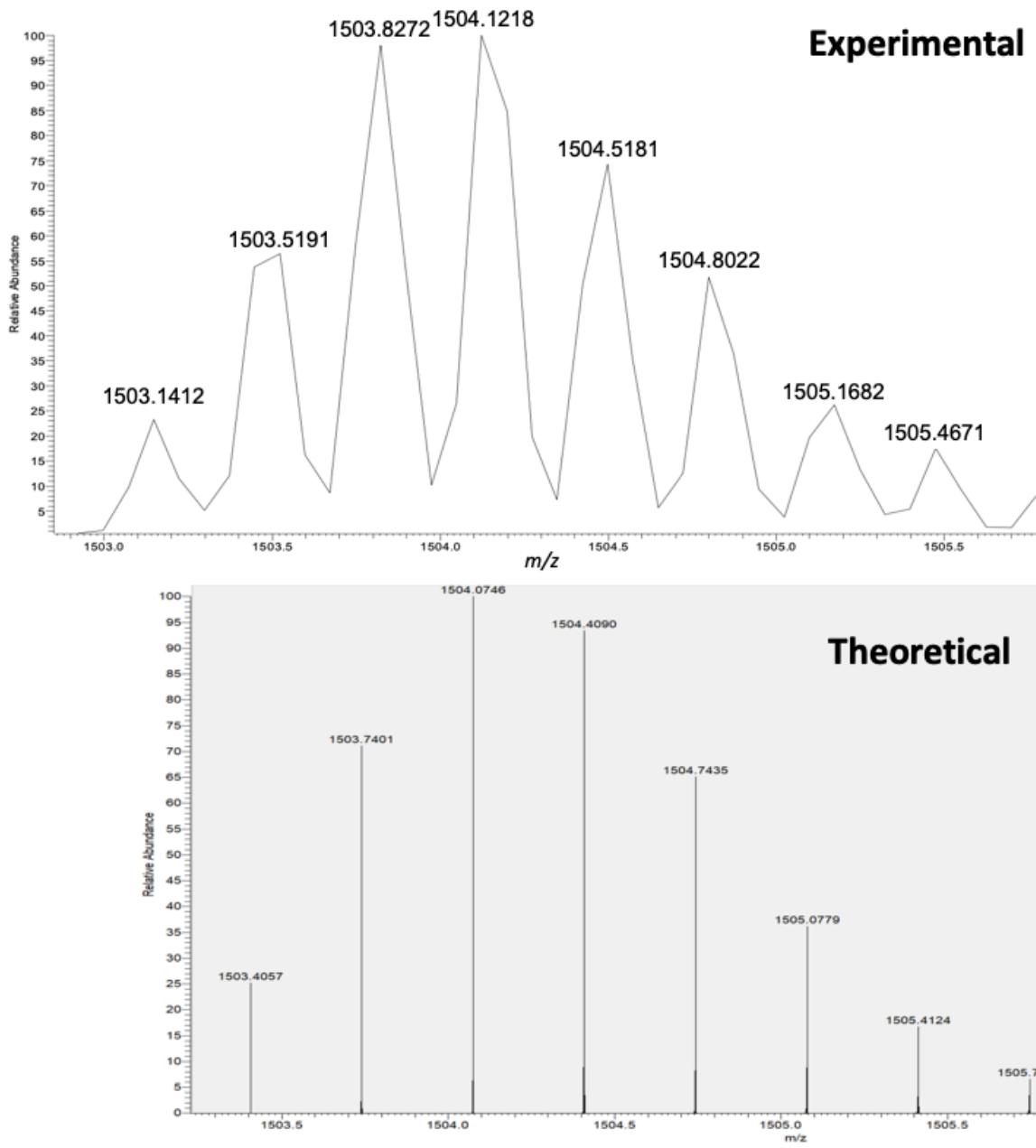


Figure S7. Expanded mass spectrum of the molecular ion signal of the G2 rotaxane dendron-OSu **4-3H·3PF₆** and comparison between the experimental result (top) and the theoretical analysis (bottom).