

Supporting Information for:
One-Flask Synthesis of Dinucleoside Tetra- and Pentaphosphates

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S1. Table of Contents

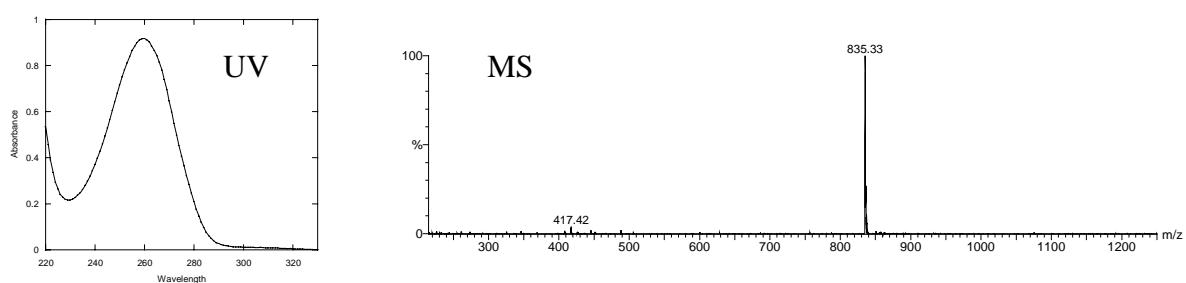
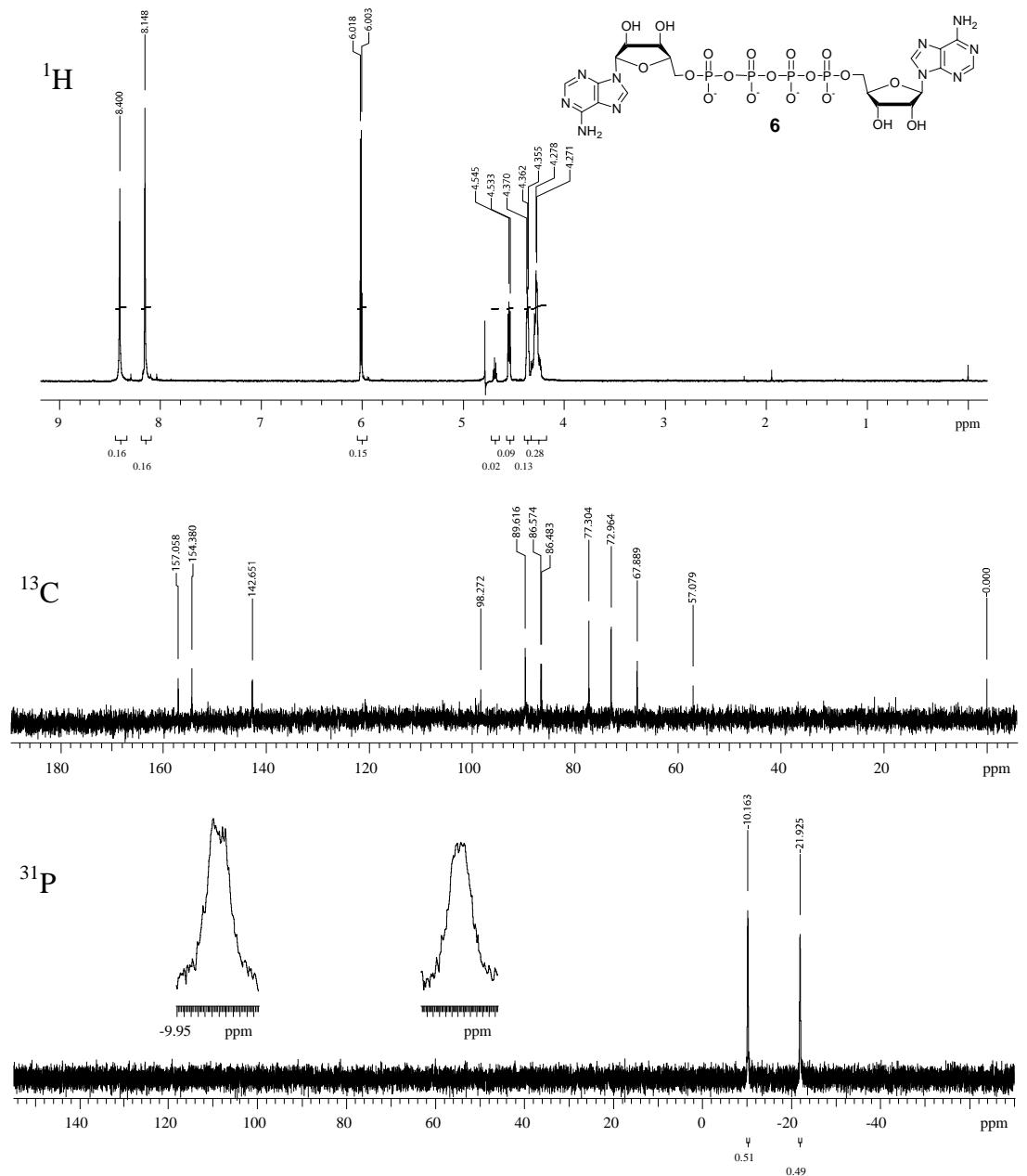
S2. Spectra (UV, MS, ^1H NMR, ^{13}C NMR and ^{31}P NMR) for Ap₄A, **6**

S3. Spectra (UV, MS, ^1H NMR, ^{13}C NMR and ^{31}P NMR) for Ap₄G, **7**

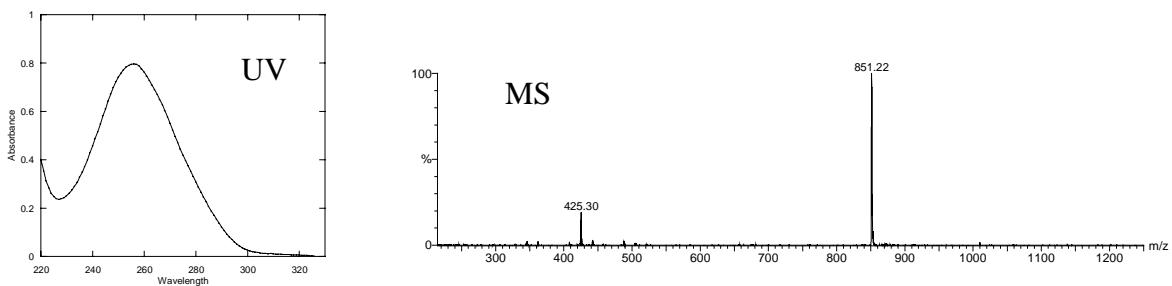
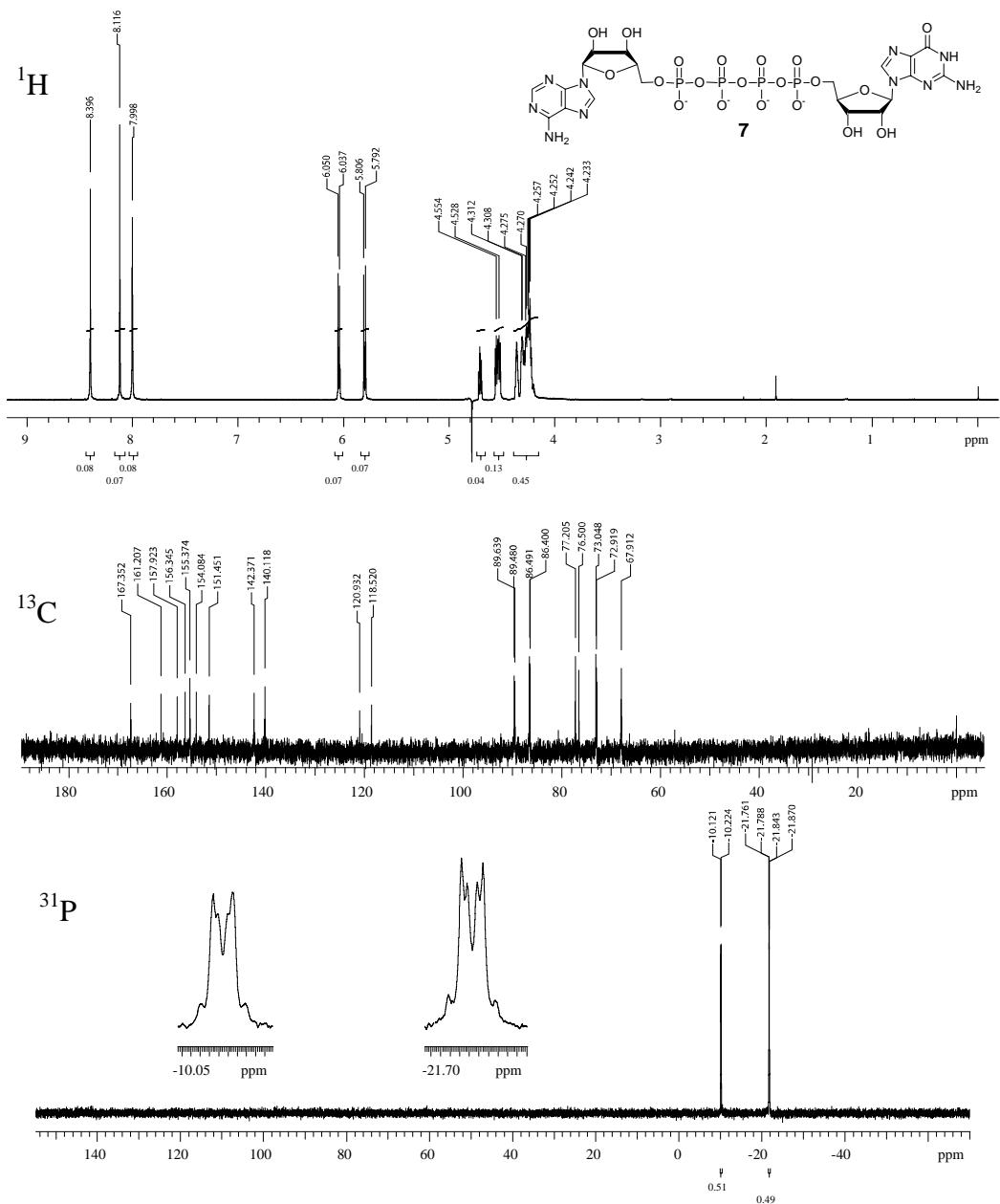
S4. Spectra (UV, MS, ^1H NMR, ^{13}C NMR and ^{31}P NMR) for Gp₄G, **8**

S5. Spectra (UV, MS, ^1H NMR, ^{13}C NMR and ^{31}P NMR) for Ap₅A, **9**

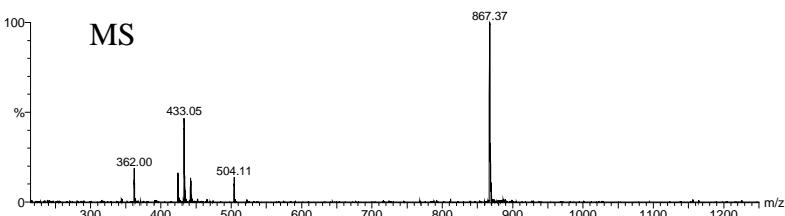
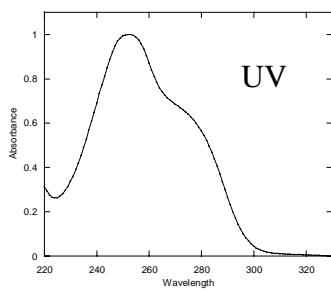
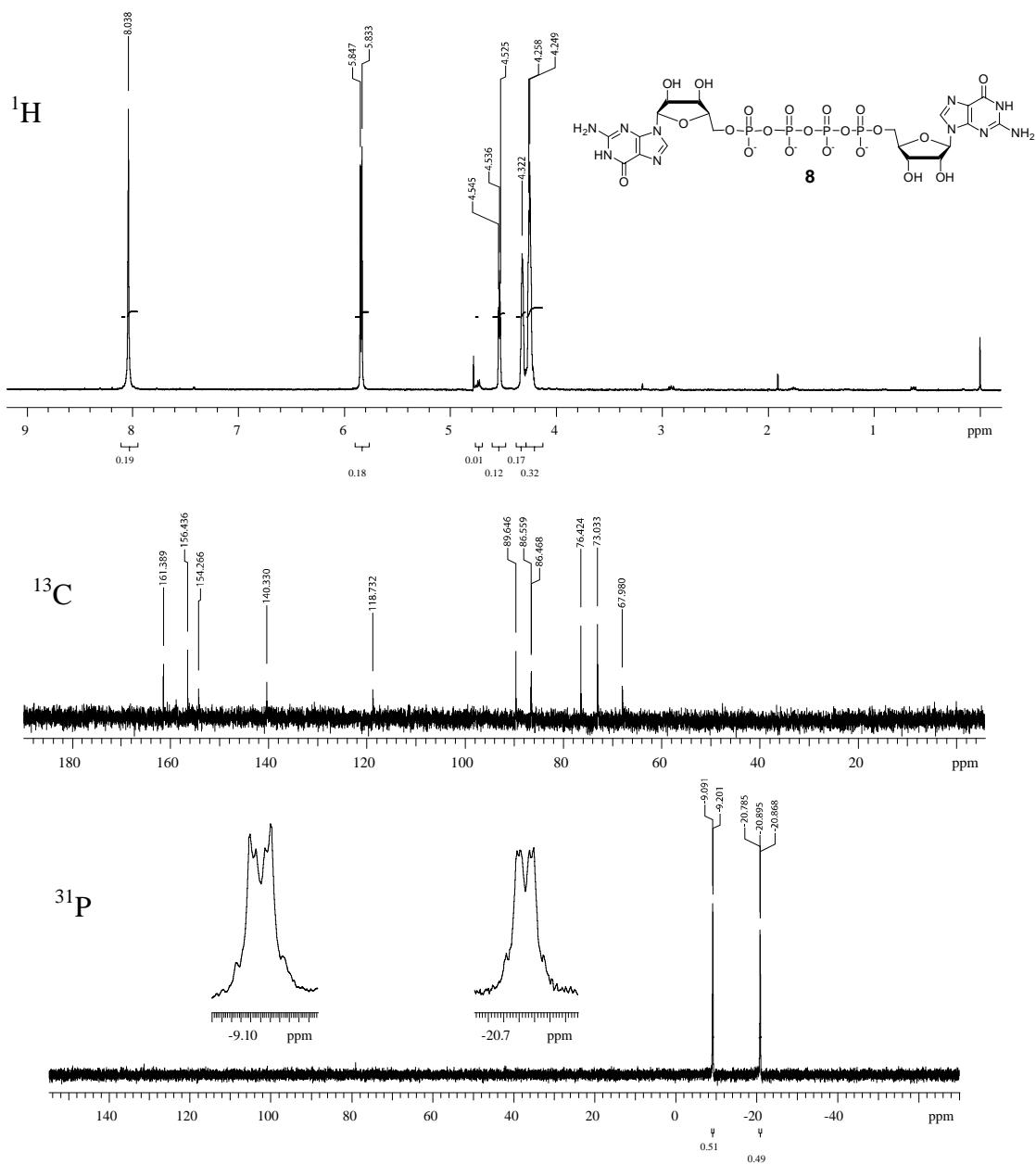
Note: All NMR spectra were acquired on a Varian Unity 400 MHz spectrometer. The samples were all in D₂O. The ^1H and ^{13}C spectra were referenced to 3-(trimethylsilyl)-1-propane-sulfonic acid, sodium salt, and the ^{31}P were referenced to neat phosphoric acid. In the ^1H NMR spectra, water suppression diminishes the adjacent resonances.



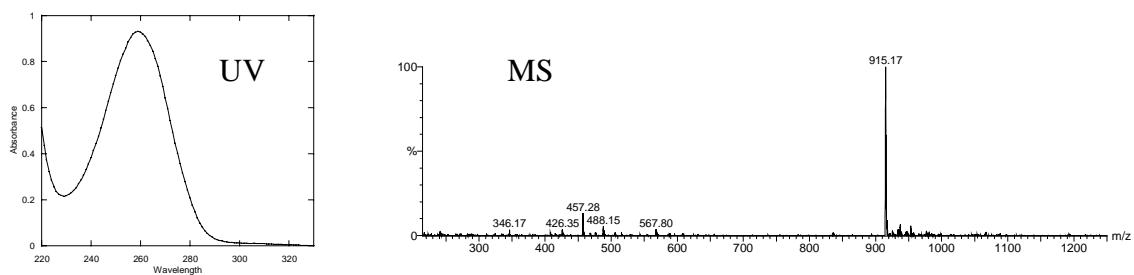
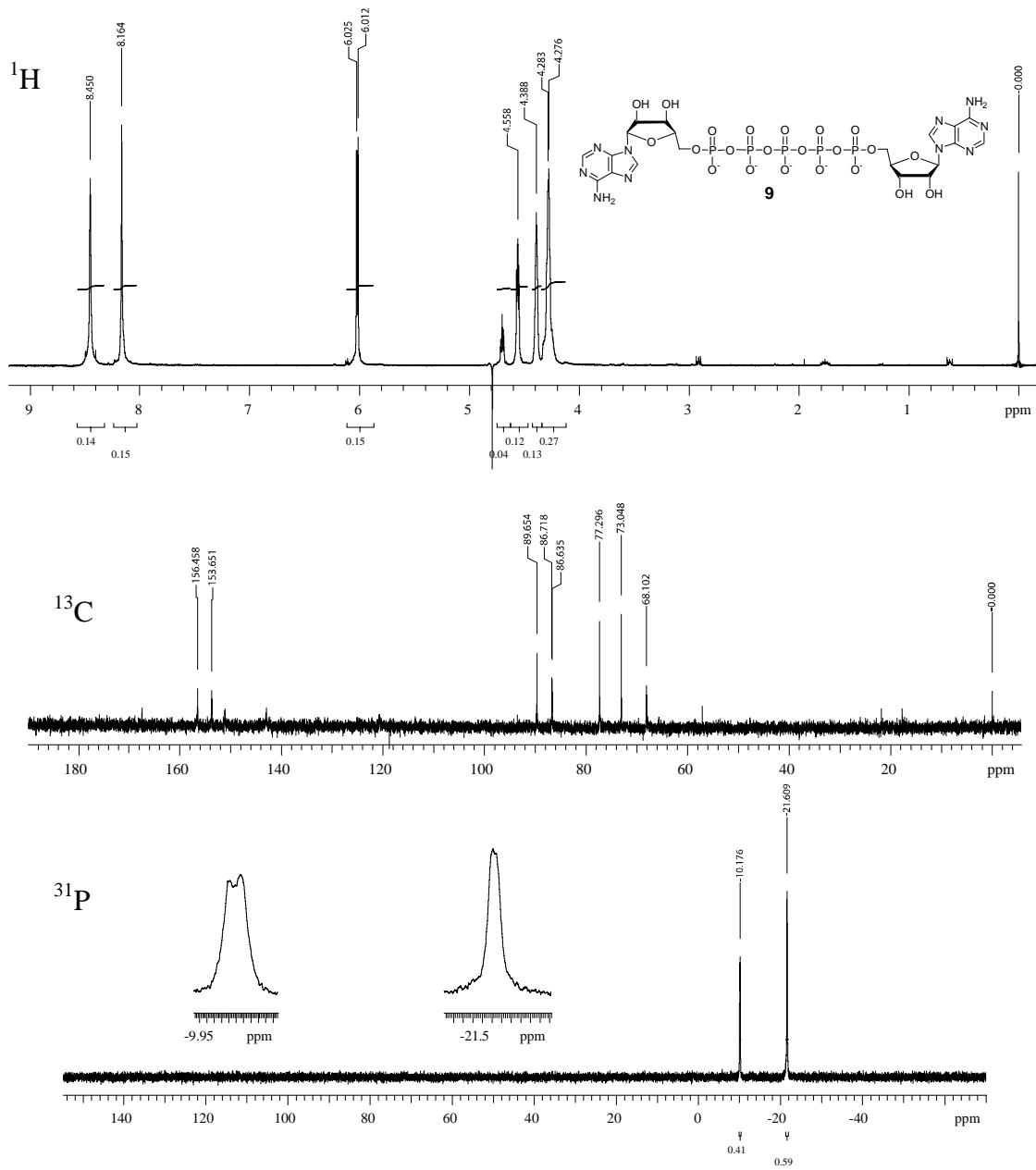
^1H NMR, ^{13}C NMR, ^{31}P NMR, UV and Mass Spectra for 6



¹H NMR, ¹³C NMR, ³¹P NMR, UV and Mass Spectra for 7



¹H NMR, ¹³C NMR, ³¹P NMR, UV and Mass Spectra for 8



¹H NMR, ¹³C NMR, ³¹P NMR, UV and Mass Spectra for **9**