

Supplementary Information

A New Straightforward Synthesis of 2', 3'-Didehydro-2', 3'-dideoxy-2'-(2"-trimethylsilyl)ethylthio)thymidine, Key Intermediate for the Synthesis of 2'-Substituted Thionucleosides

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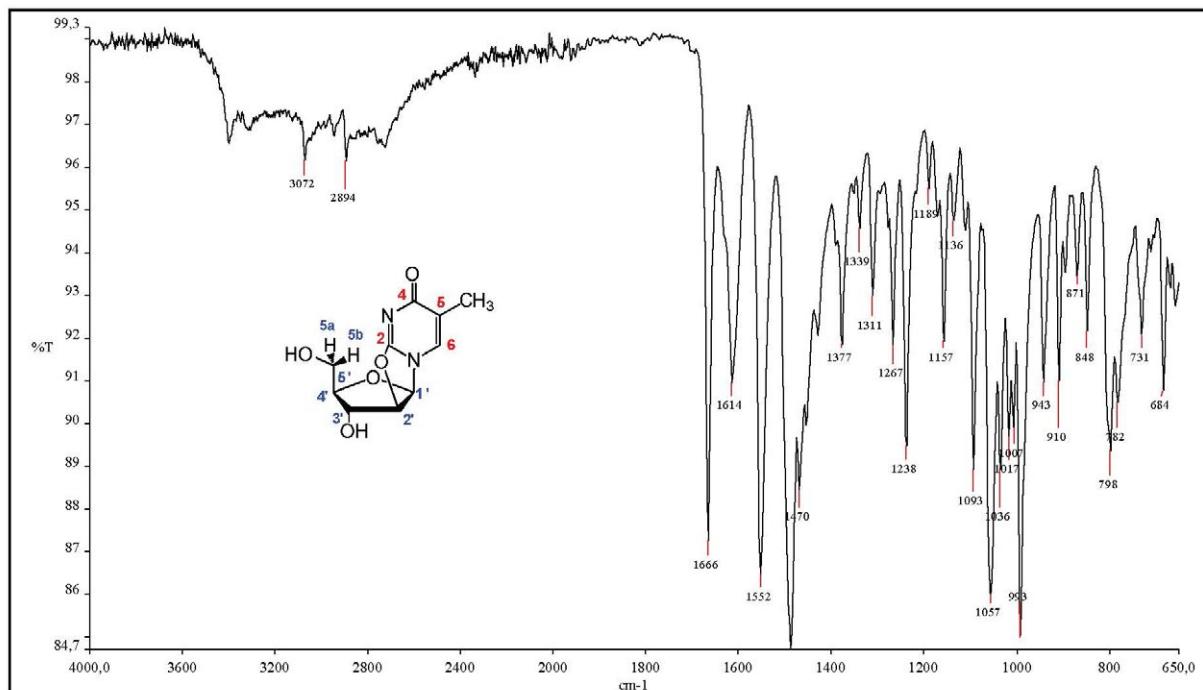


Figure S1. FTIR spectrum of compound (4).

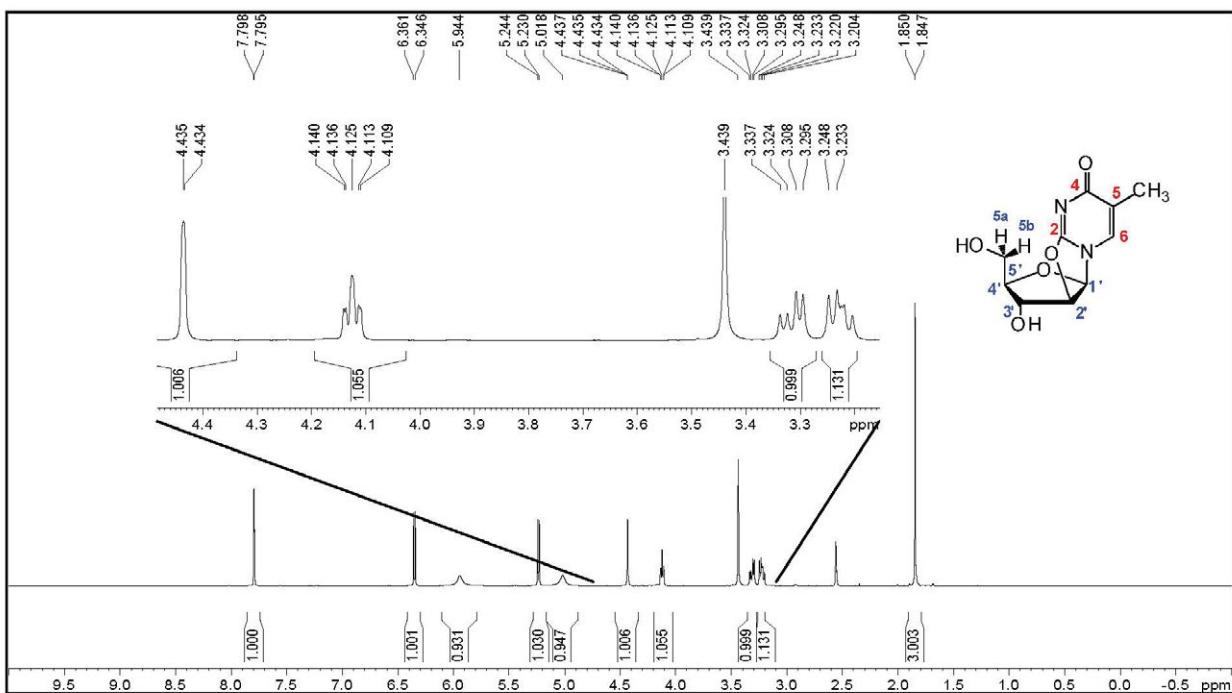


Figure S2. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound (4).

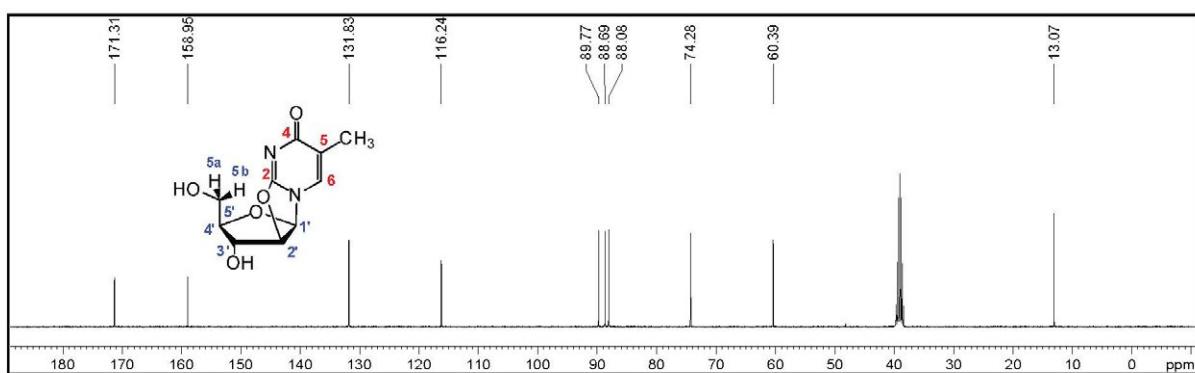
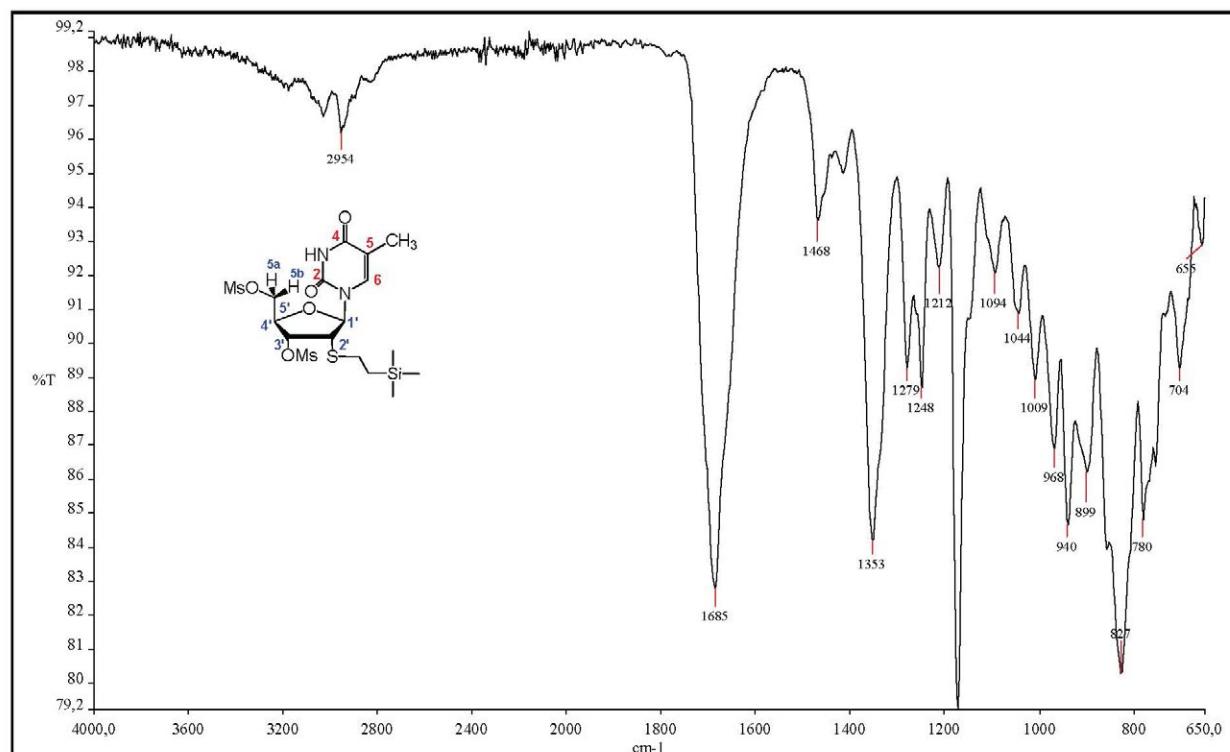
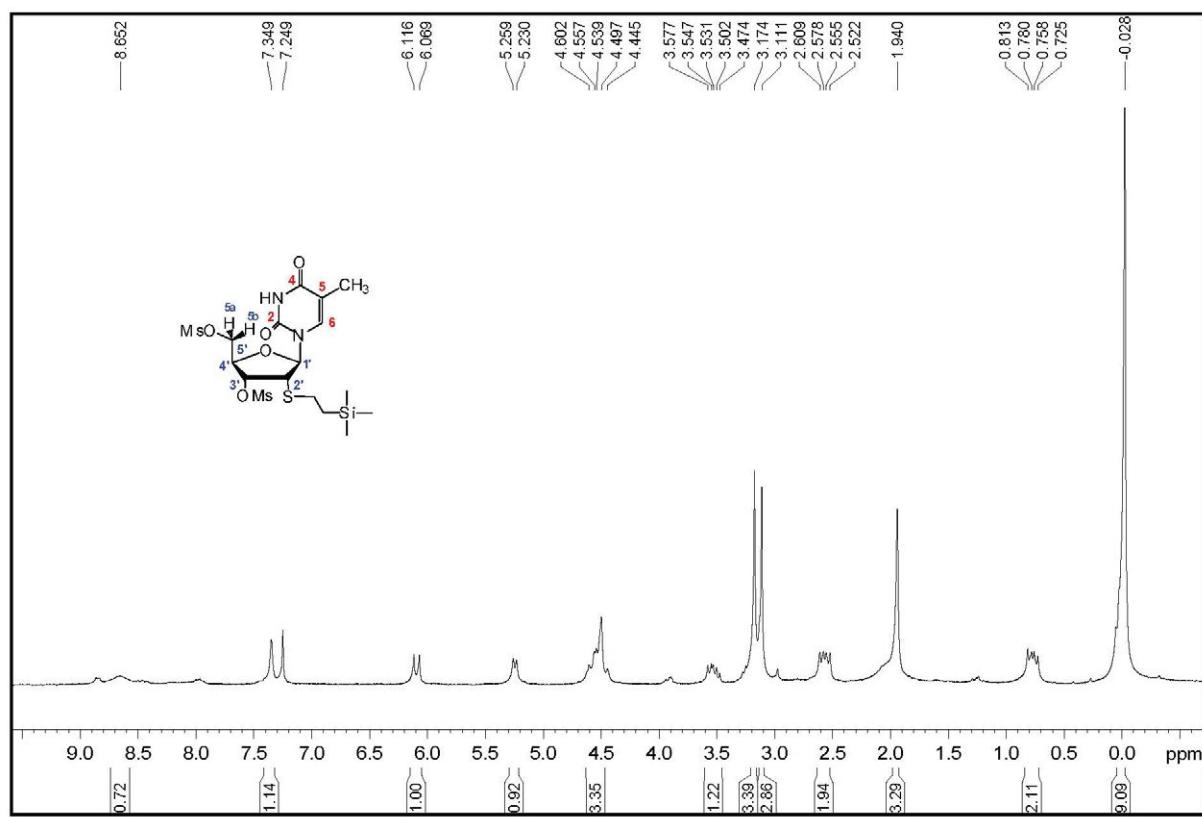


Figure S3. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound (4).

**Figure S4.** FTIR spectrum of compound (6).**Figure S5.** ¹H NMR spectrum (200 MHz, CDCl₃) of compound (6).

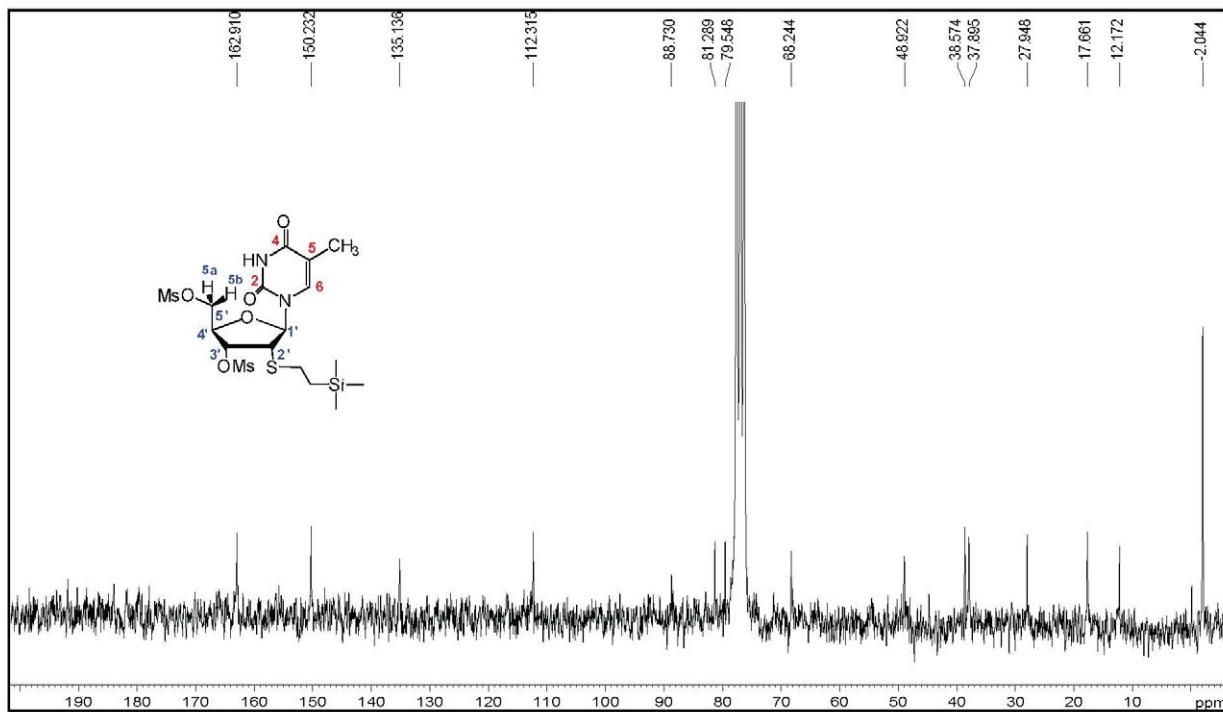


Figure S6. ^{13}C NMR spectrum (50 MHz, CDCl_3) of compound (6).

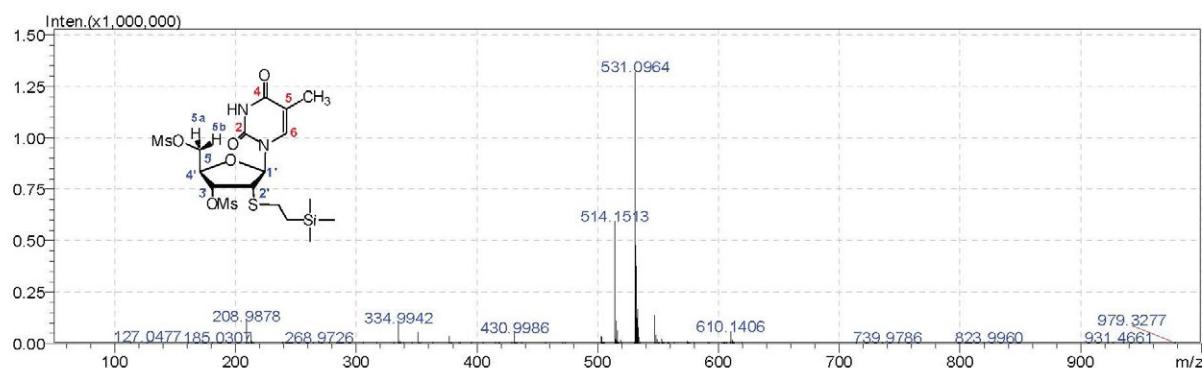


Figure S7. Mass spectrum of compound (6).

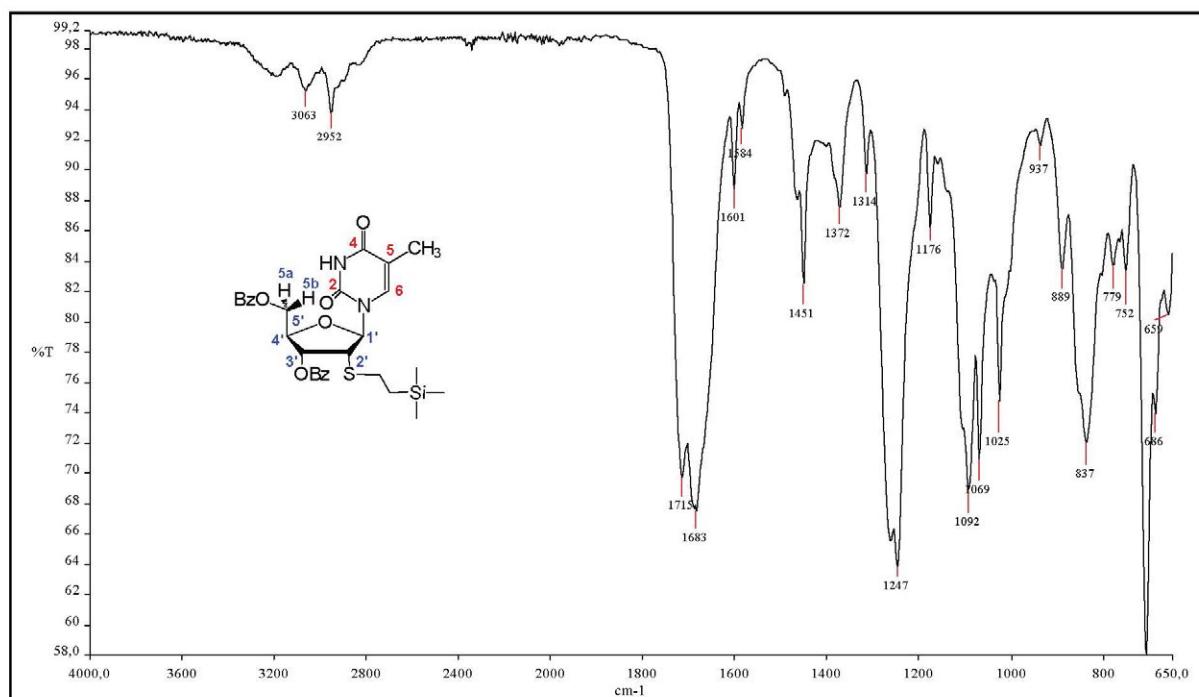


Figure S8. FTIR spectrum of compound (7).

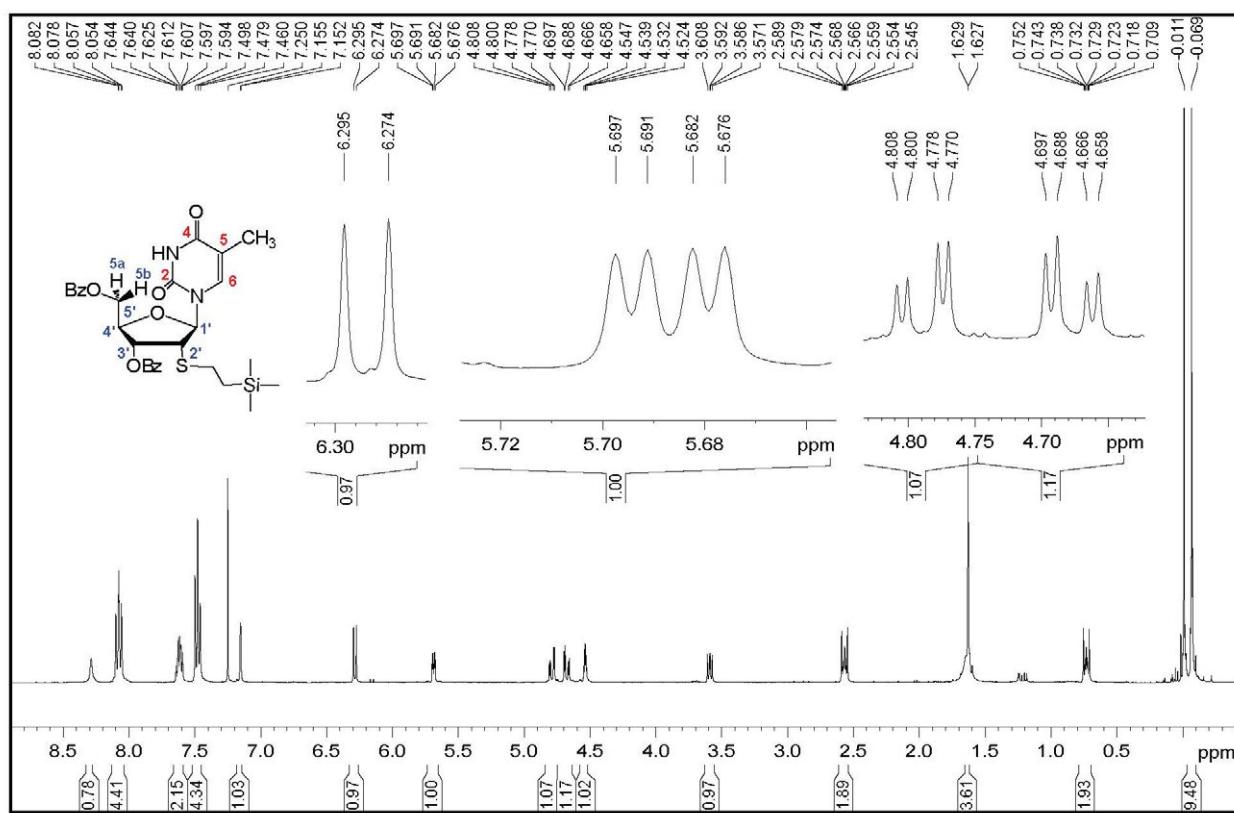


Figure S9. ^1H NMR spectrum (400 MHz, CDCl_3) of compound (7).

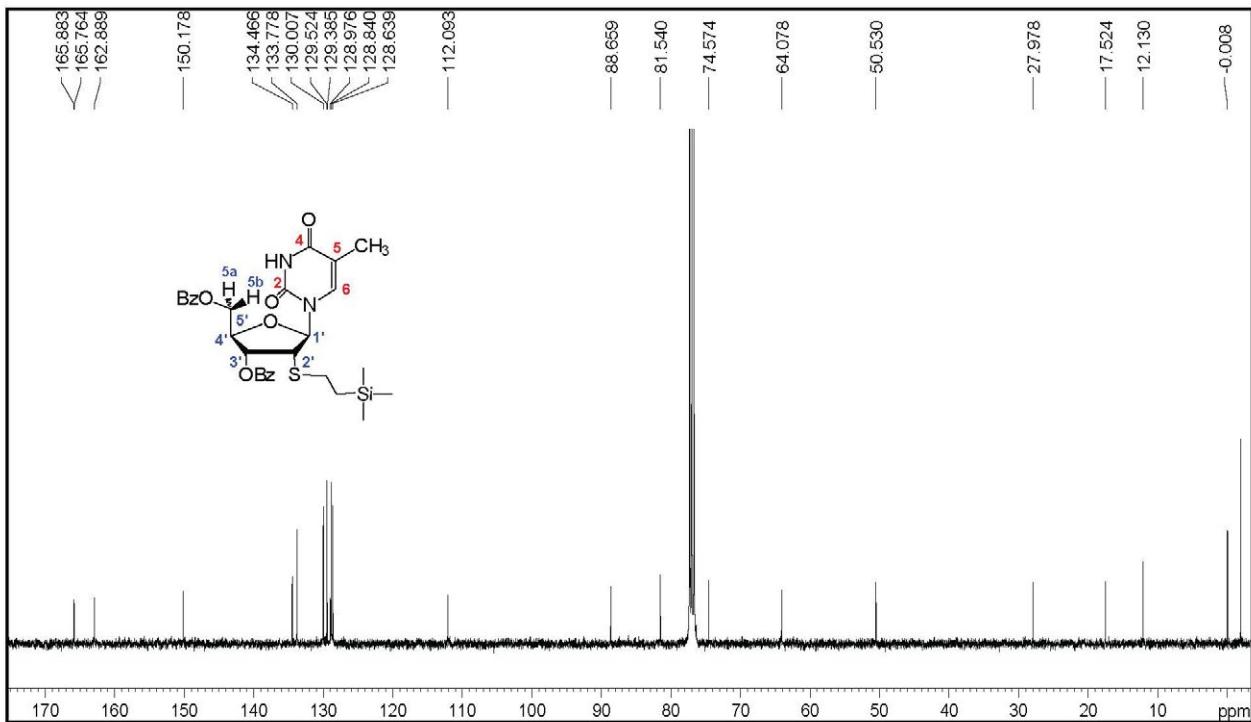


Figure S10. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound (7).

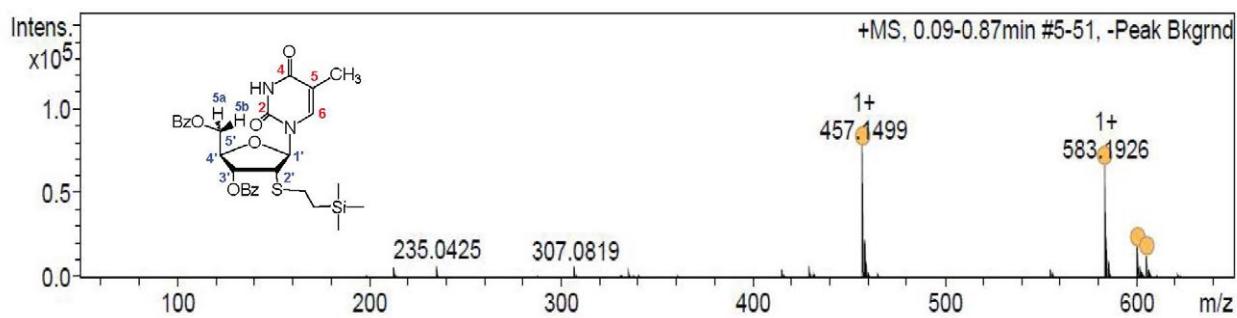


Figure S11. Mass spectrum of compound (7).

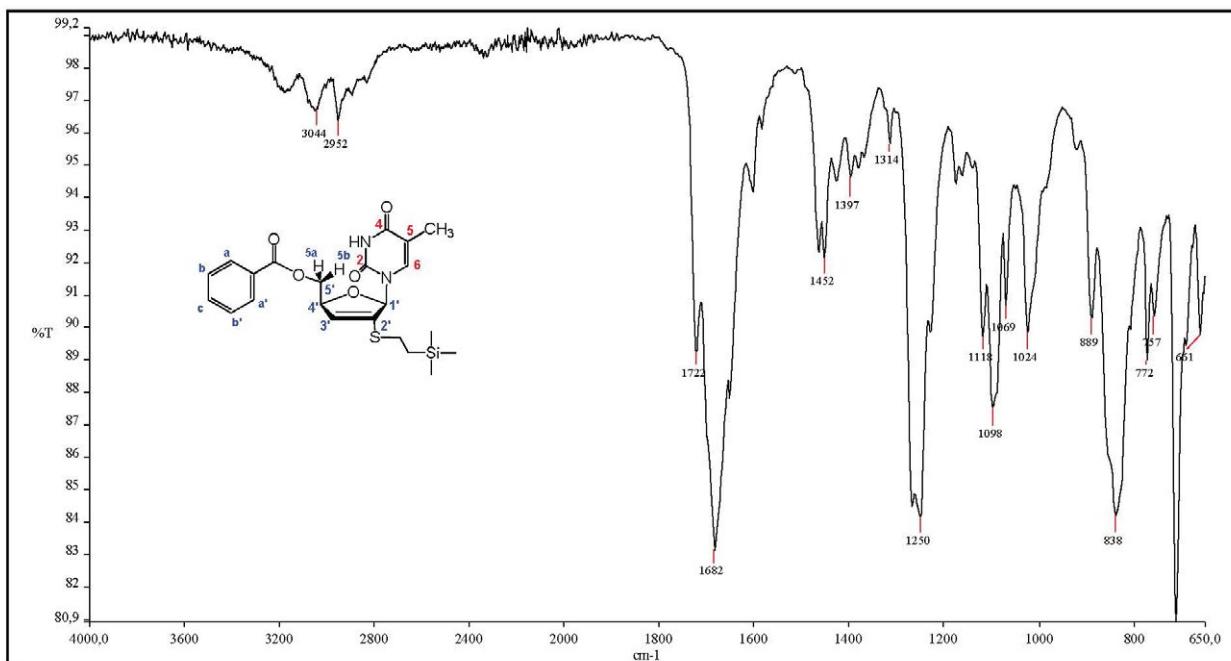


Figure S12. FTIR spectrum of compound (8).

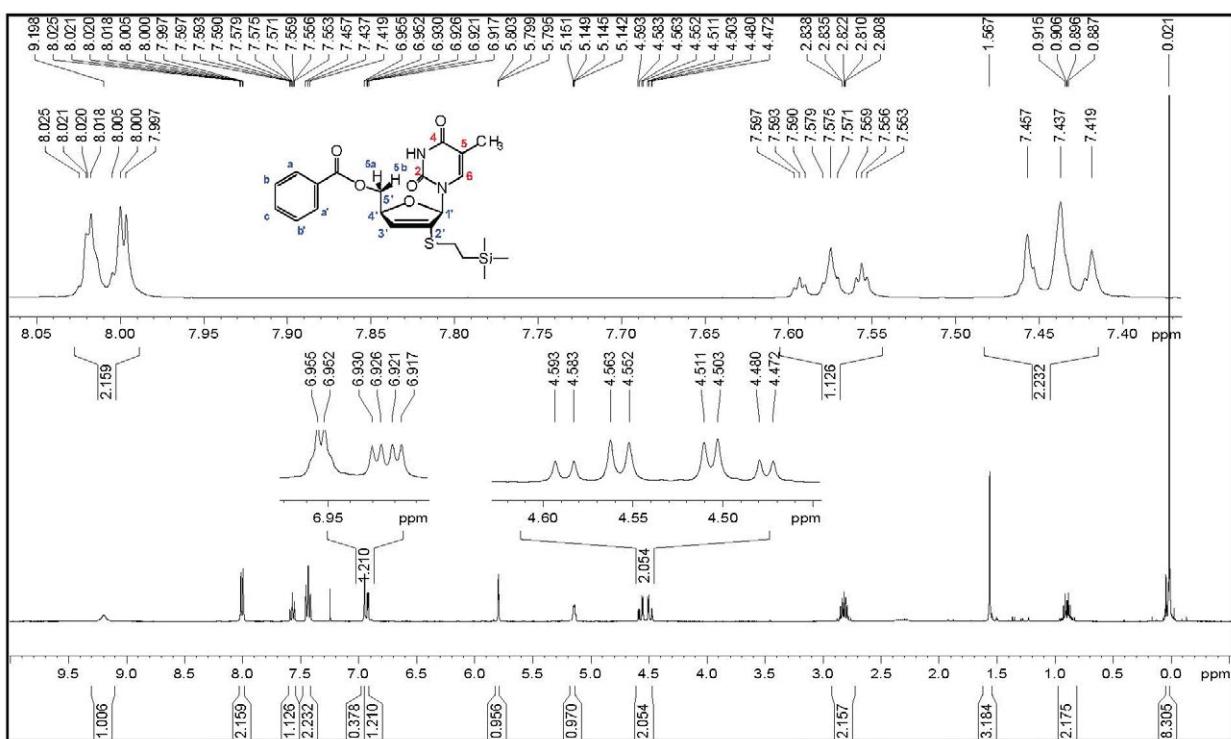


Figure S13. ^1H NMR spectrum (400 MHz, CDCl_3) of compound (8).

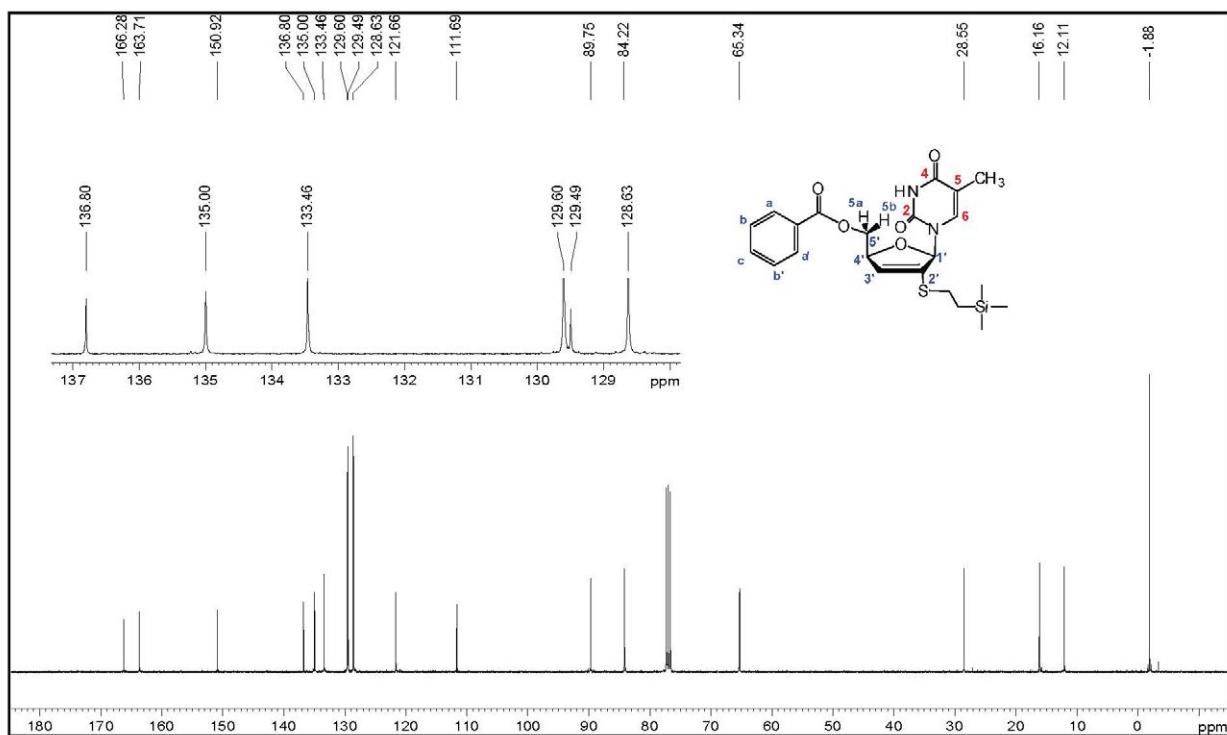


Figure S14. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound (8).

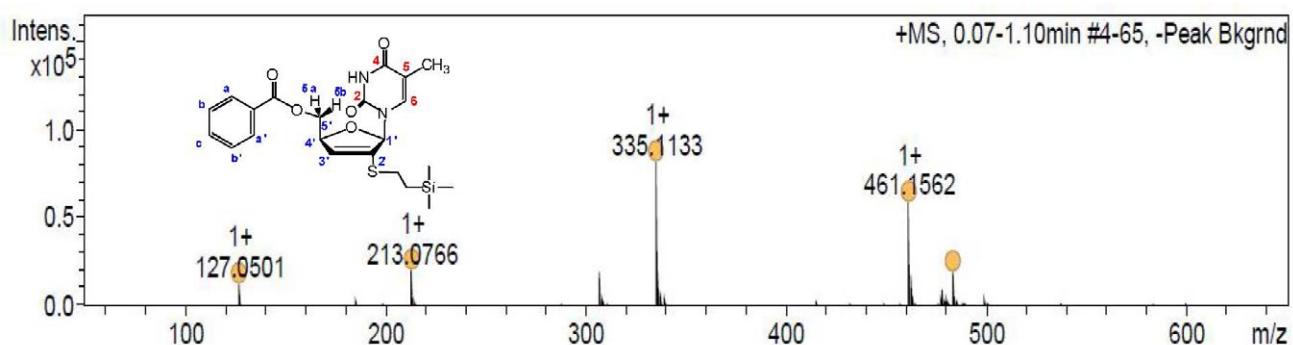
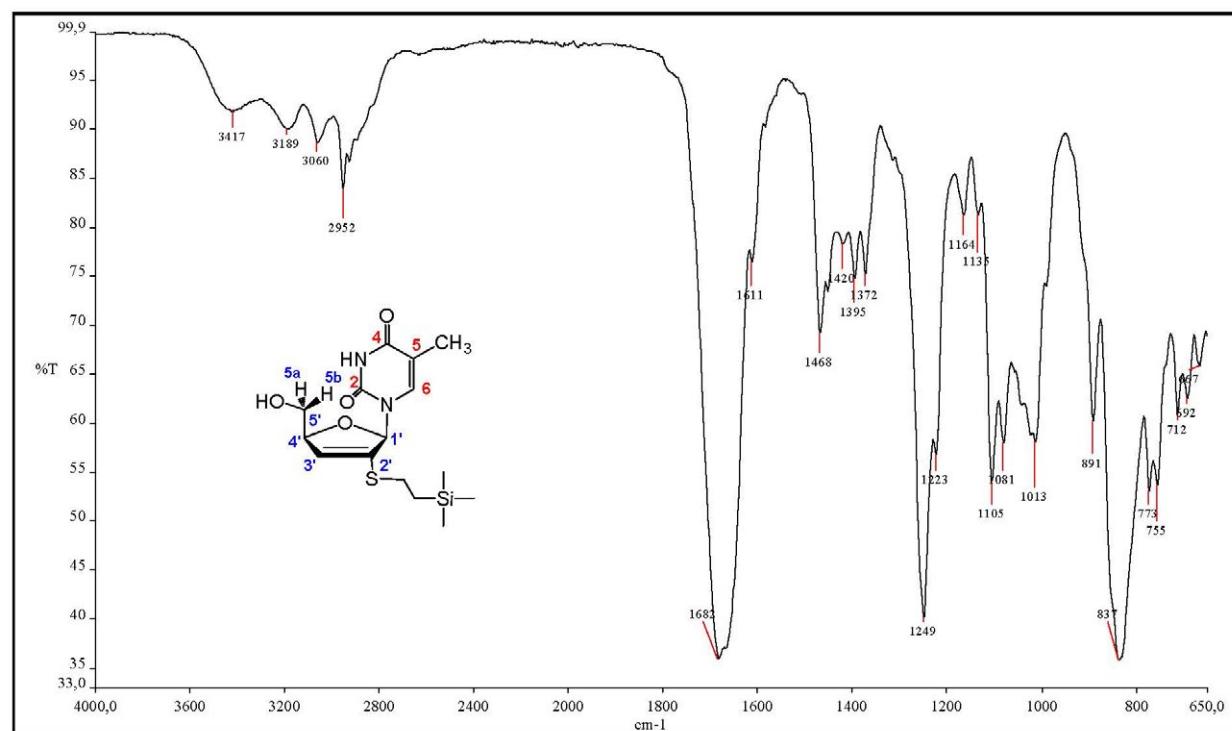
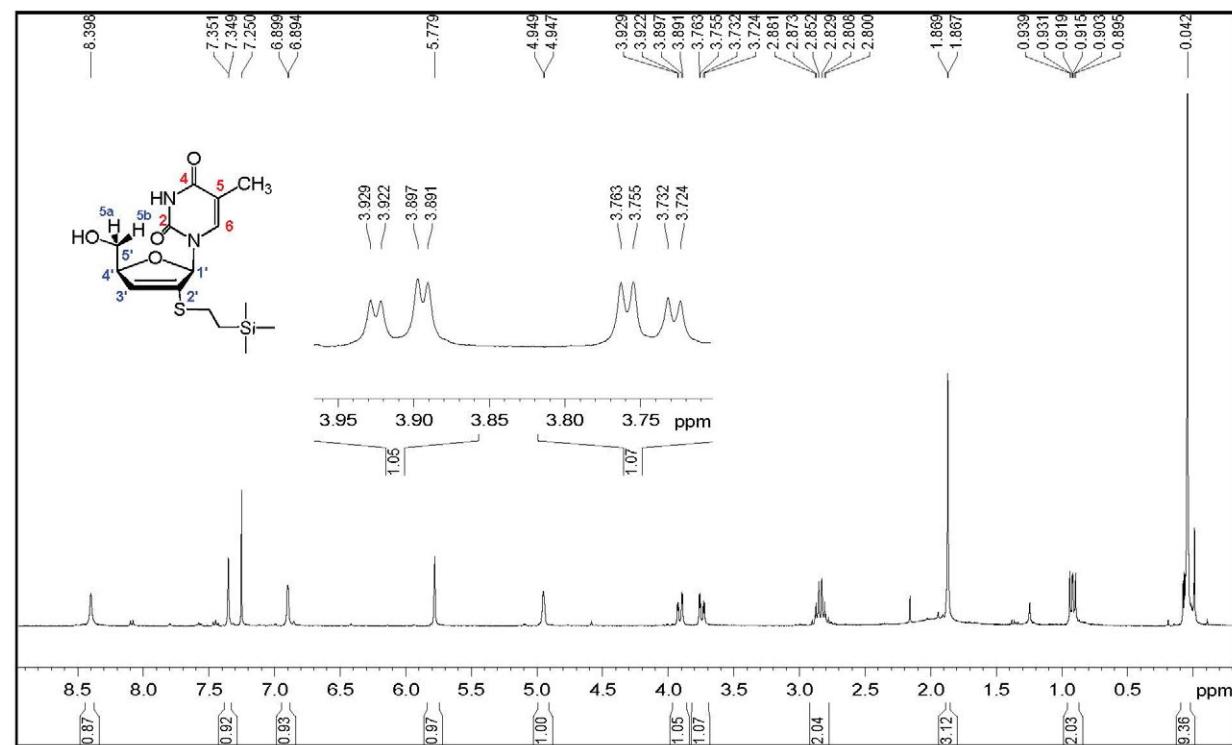


Figure S15. Mass spectrum of compound (8).

**Figure S16.** FTIR spectrum of compound (9).**Figure S17.** ¹H NMR spectrum (400 MHz, CDCl₃) of compound (8).

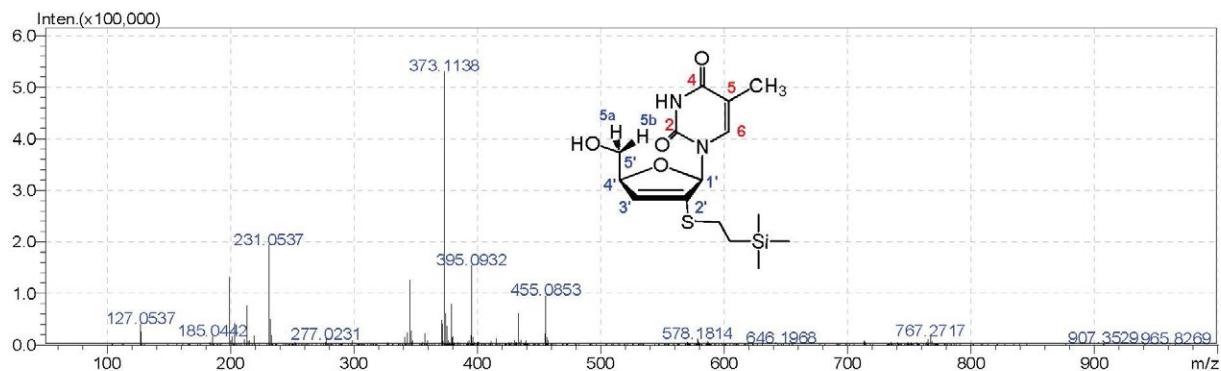


Figure S18. Mass spectrum of compound (9).