

Supplementary Materials

Figure S1. ^1H -NMR spectrum of compound **4**.

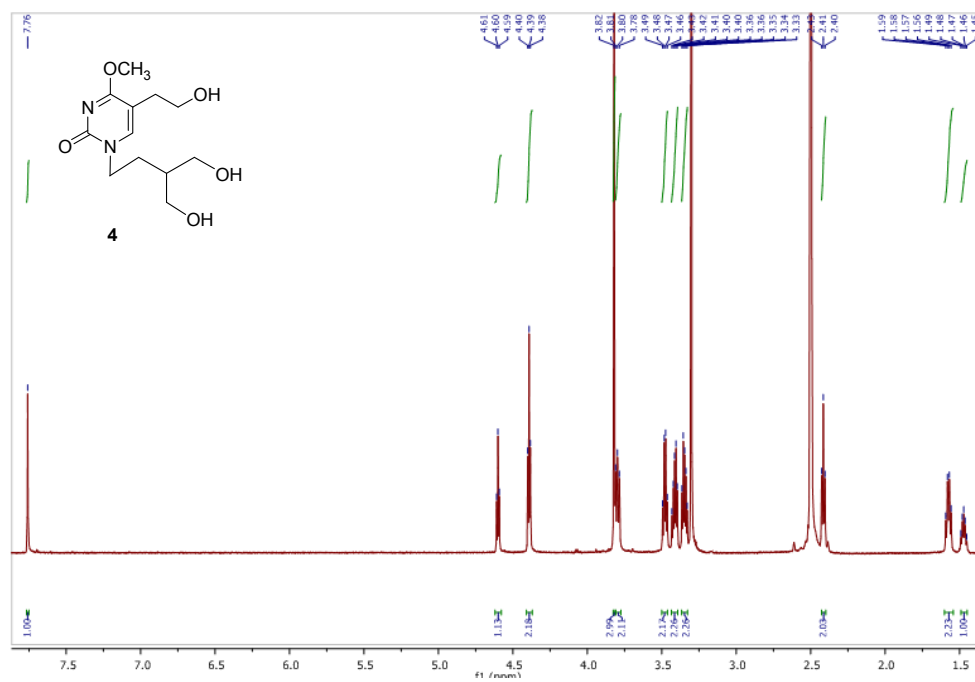


Figure S2. ^{13}C -NMR spectrum of compound **4**.

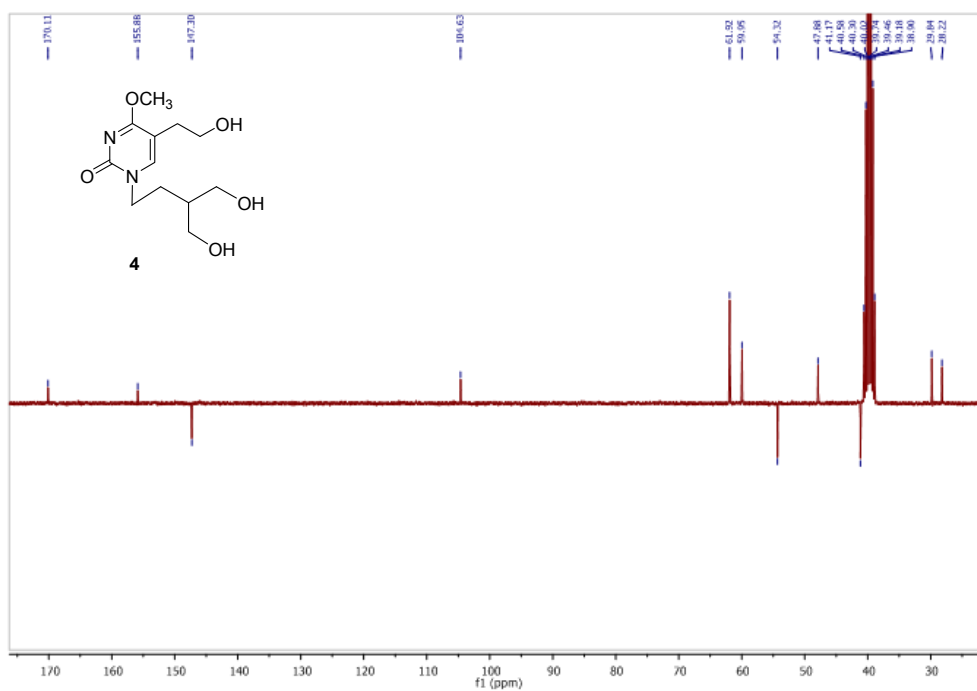


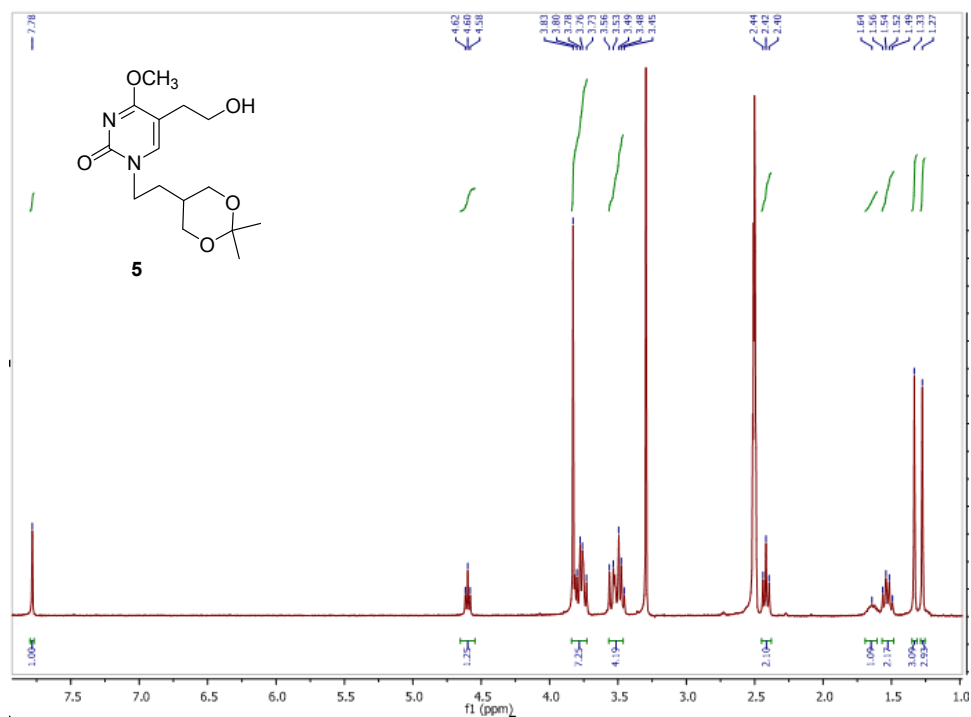
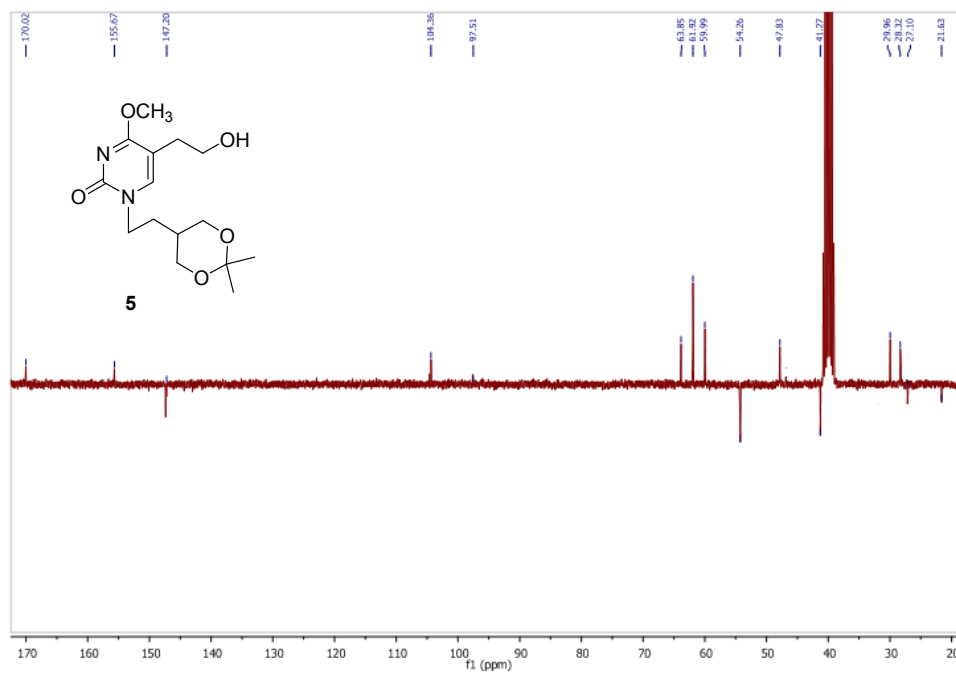
Figure S3. ^1H -NMR spectrum of compound **5**.**Figure S4.** ^{13}C -NMR spectrum of compound **5**.

Figure S5. (a) ^1H -NMR spectrum of compound 7. (b) A part of the ^1H -NMR spectrum of 7 displaying H-F coupling in C-5 side chain of the pyrimidine moiety.

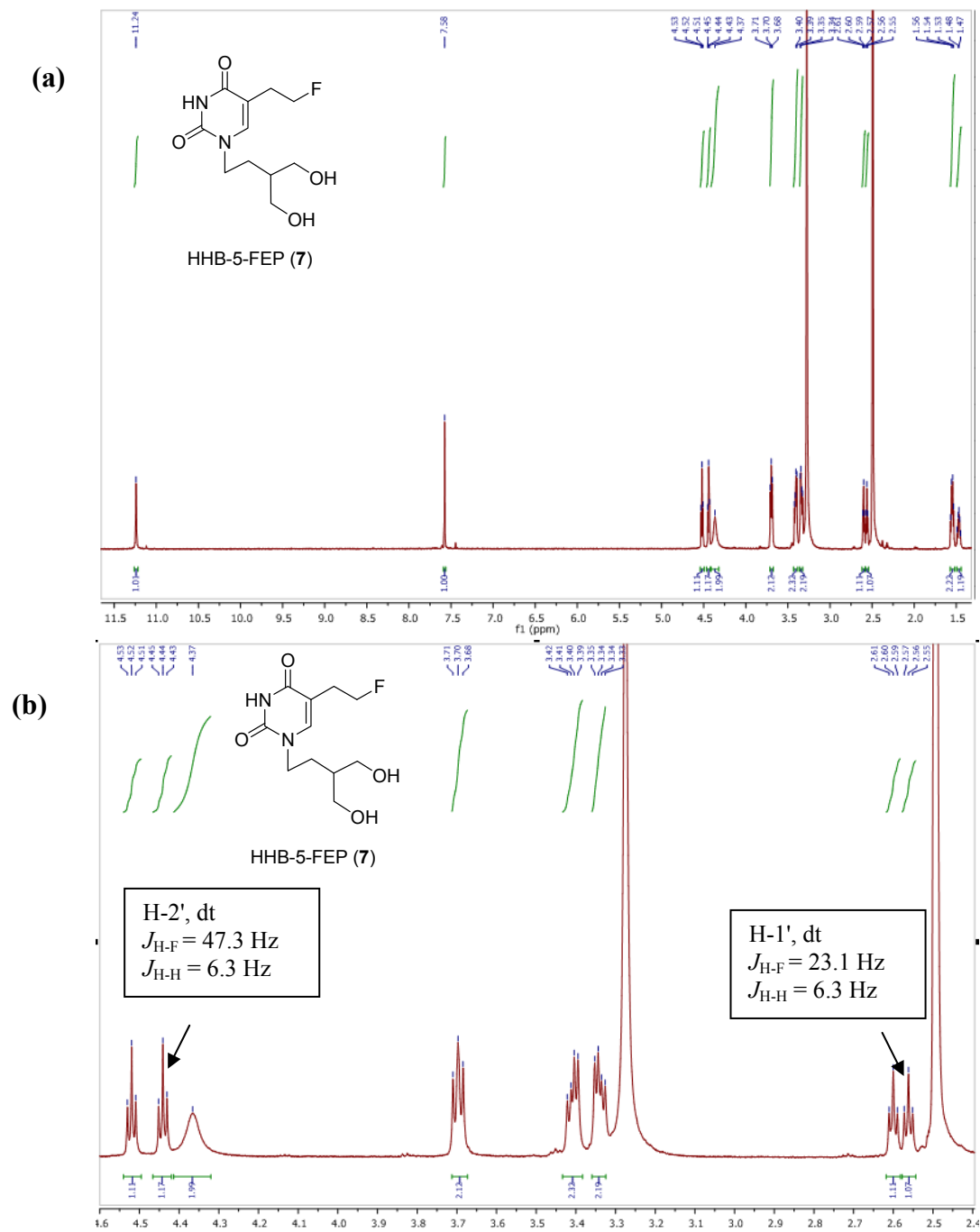


Figure S6. A part of the ^{13}C -NMR spectrum of compound **7** displaying C-F coupling in C-5 side chain of the pyrimidine moiety.

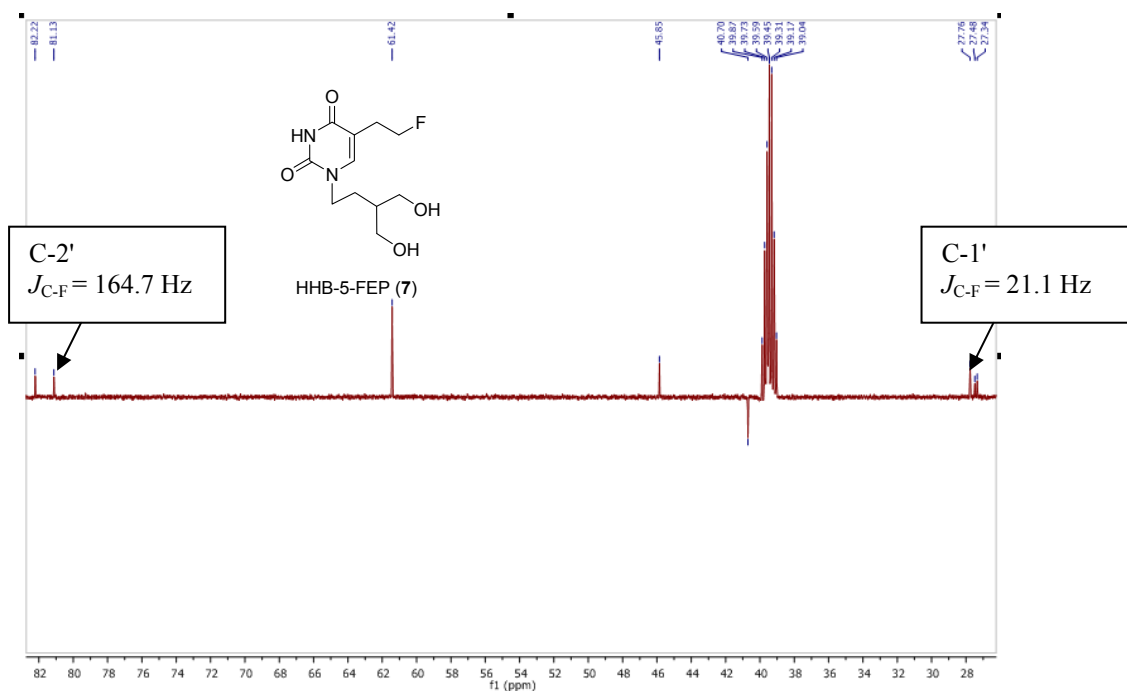


Figure S7. ^1H -NMR spectrum of compound **8**.

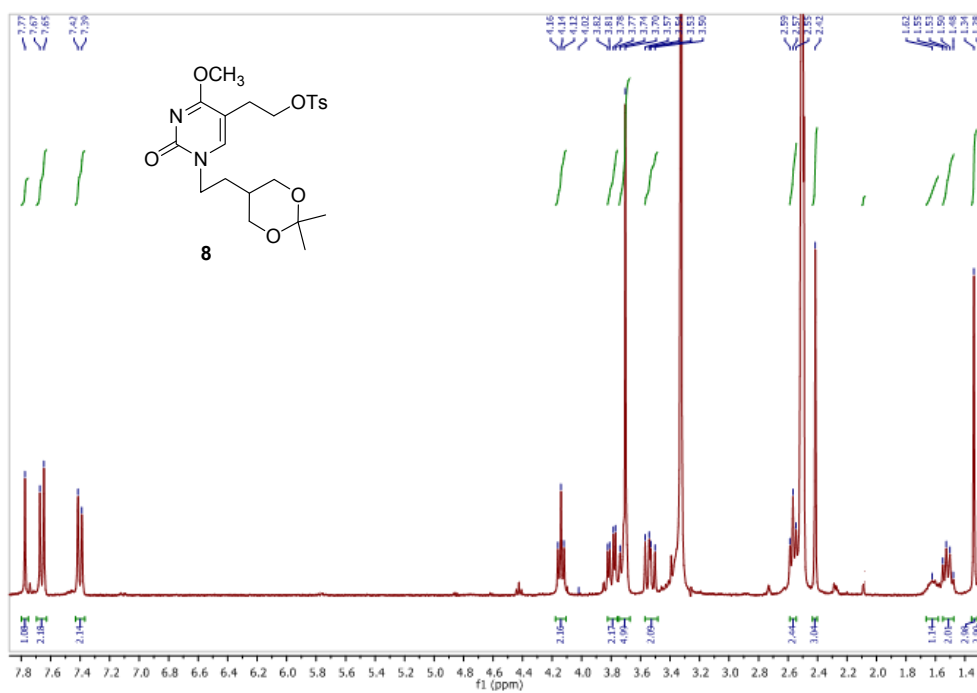
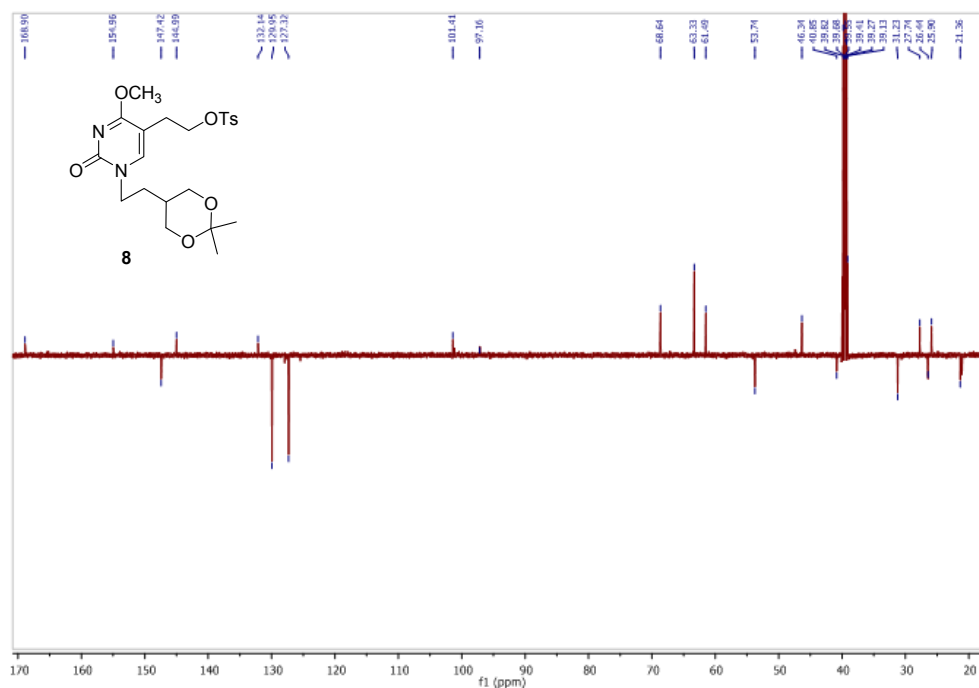


Figure S8. ^{13}C -NMR spectrum of compound **8**.**Figure S9.** Analytical HPLC chromatogram of $[\text{}^{18}\text{F}]$ **7** coinjected with the nonradioactive reference compound **7**.