

Supplementary Information

Facile and Efficient Synthesis of [¹⁸F]Fluoromisonidazole Using Novel 2-Nitroimidazole Derivatives

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¹H and ¹³C NMR spectra for new compounds

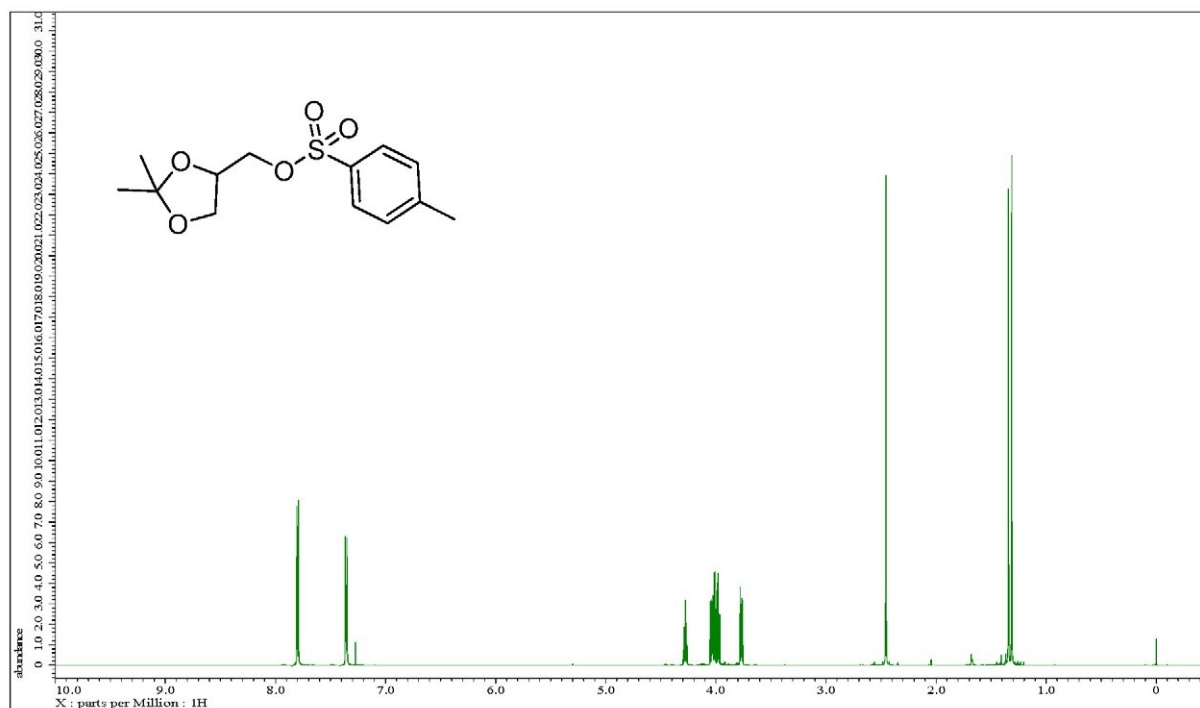


Figure S1. ¹H NMR spectrum (600 MHz, CDCl₃) of compound 2.

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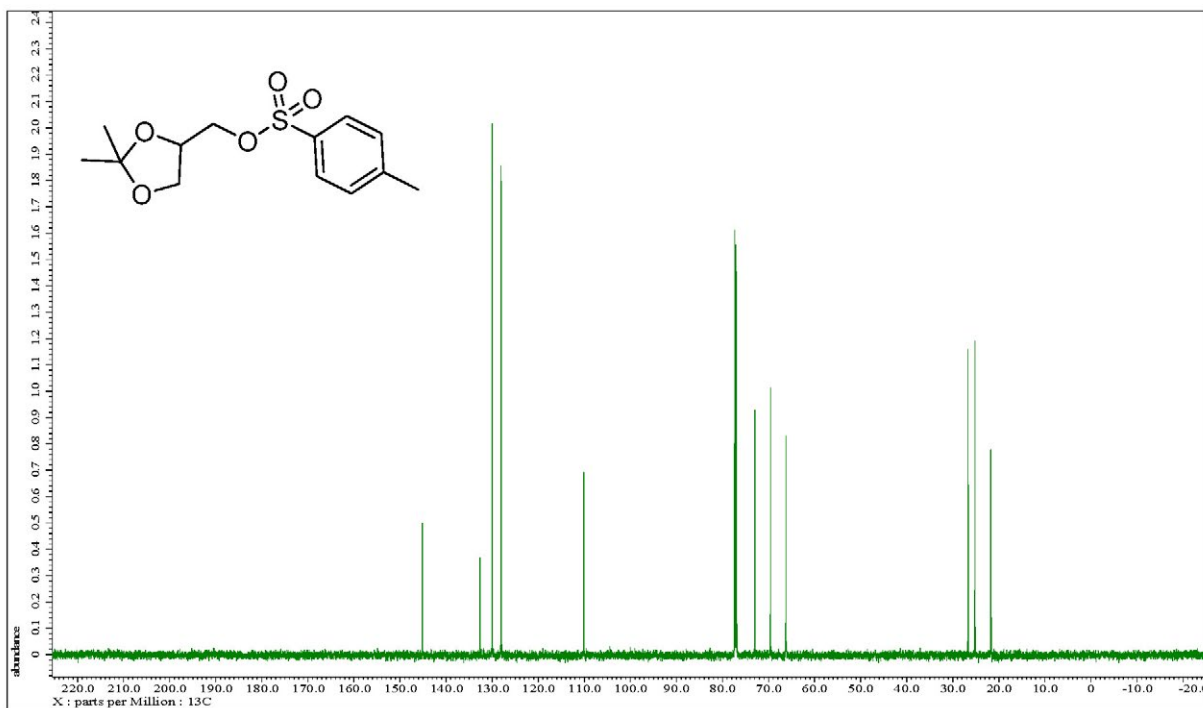


Figure S2. ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound 2.

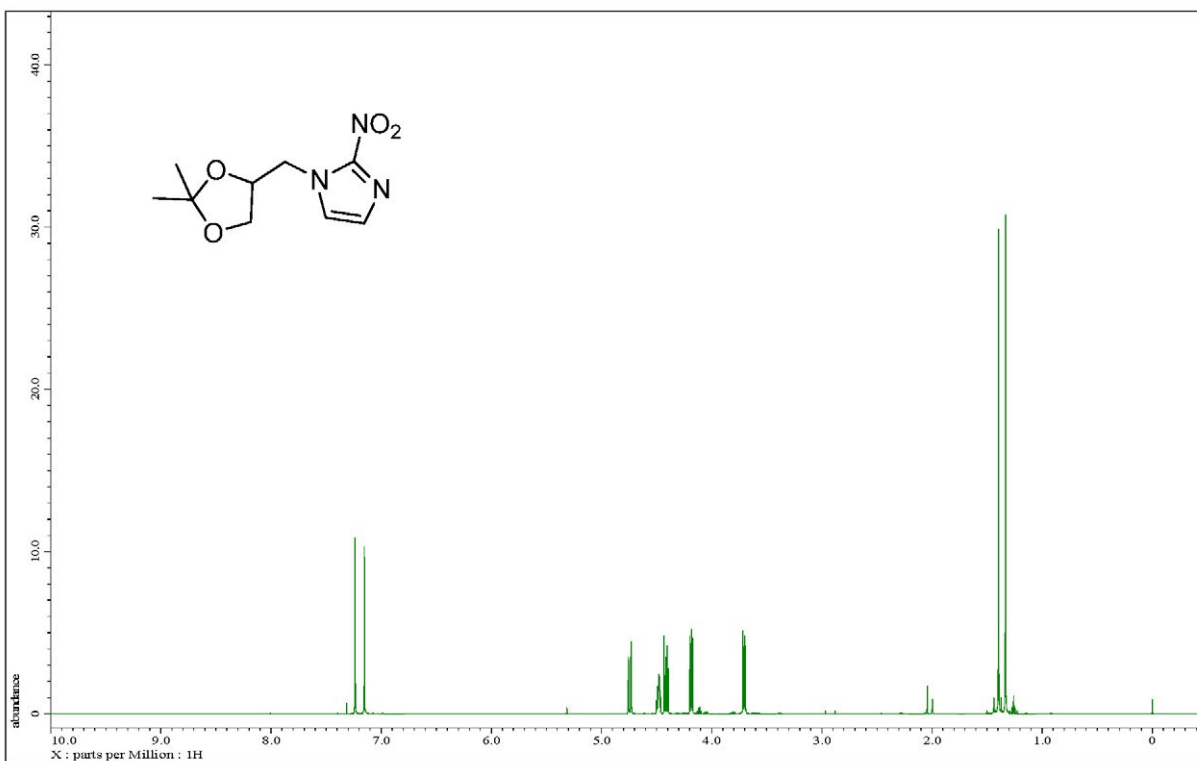


Figure S3. ^1H NMR spectrum (600 MHz, CDCl_3) of compound 3.

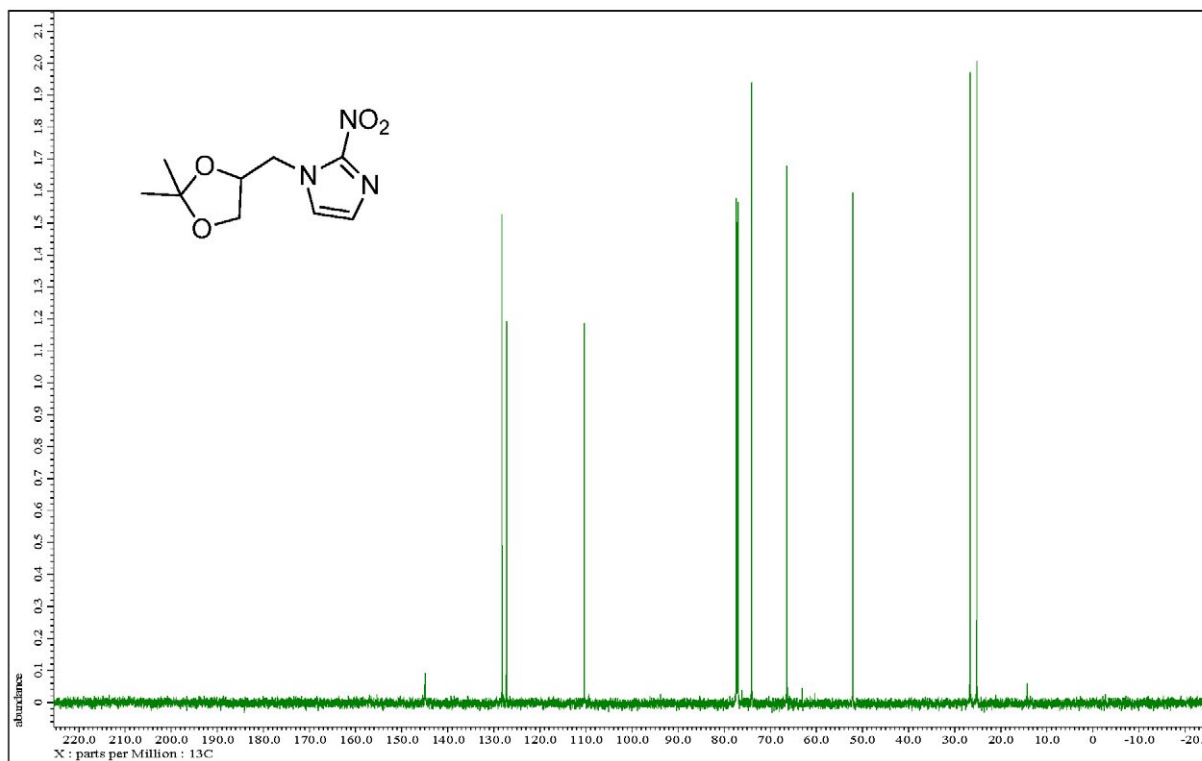


Figure S4. ¹³C NMR spectrum (150 MHz, CDCl₃) of compound 3.

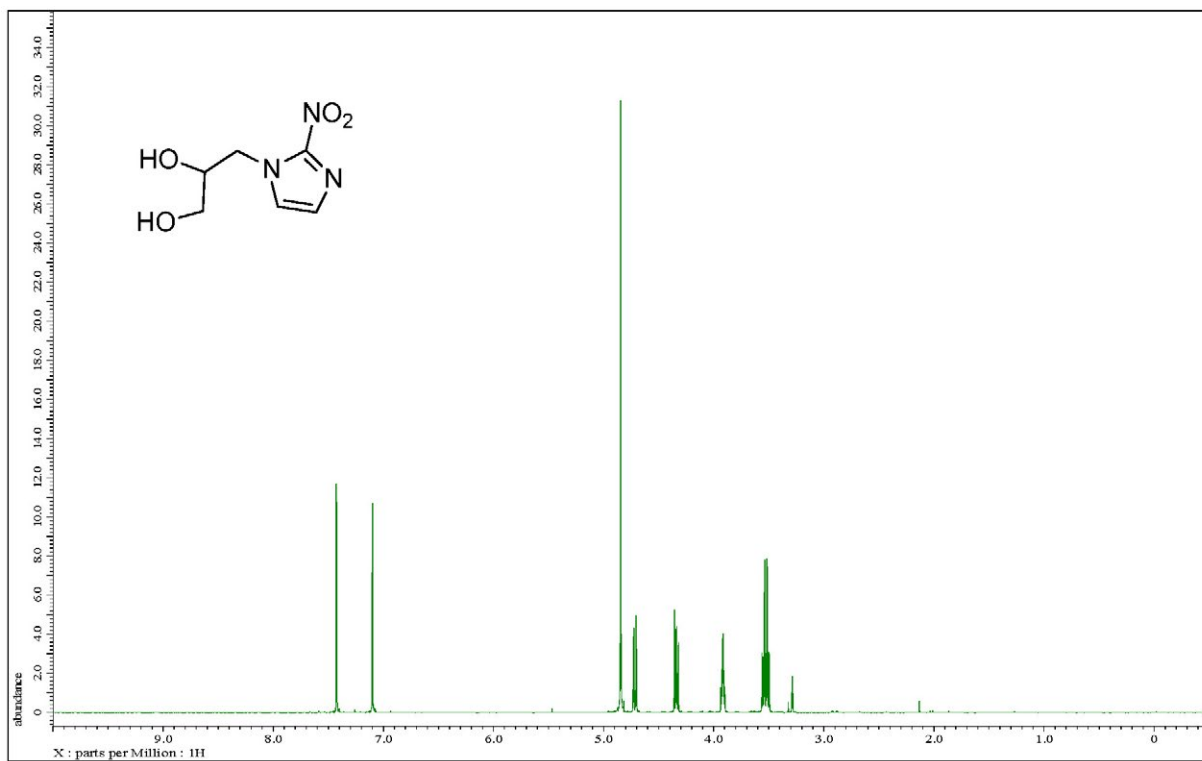


Figure S5. ¹H NMR spectrum (600 MHz, CD₃OD) of compound 4.

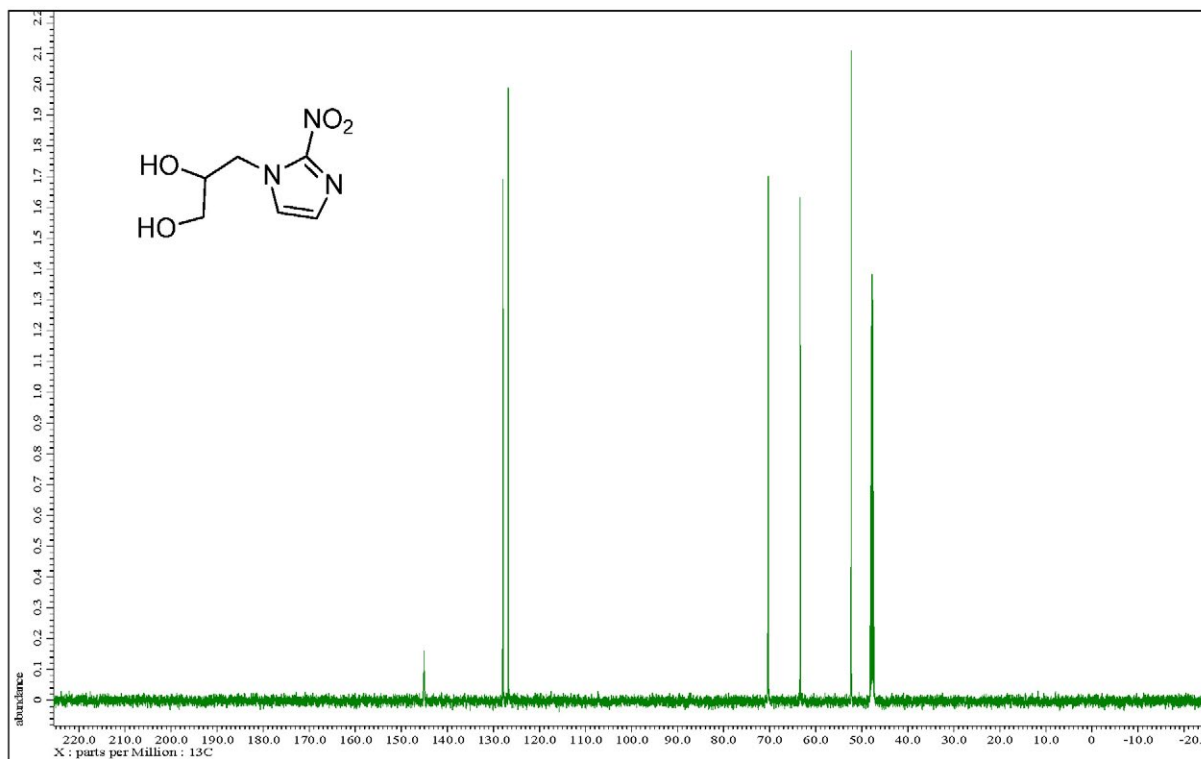


Figure S6. ^{13}C NMR spectrum (150 MHz, CD_3OD) of compound 4.

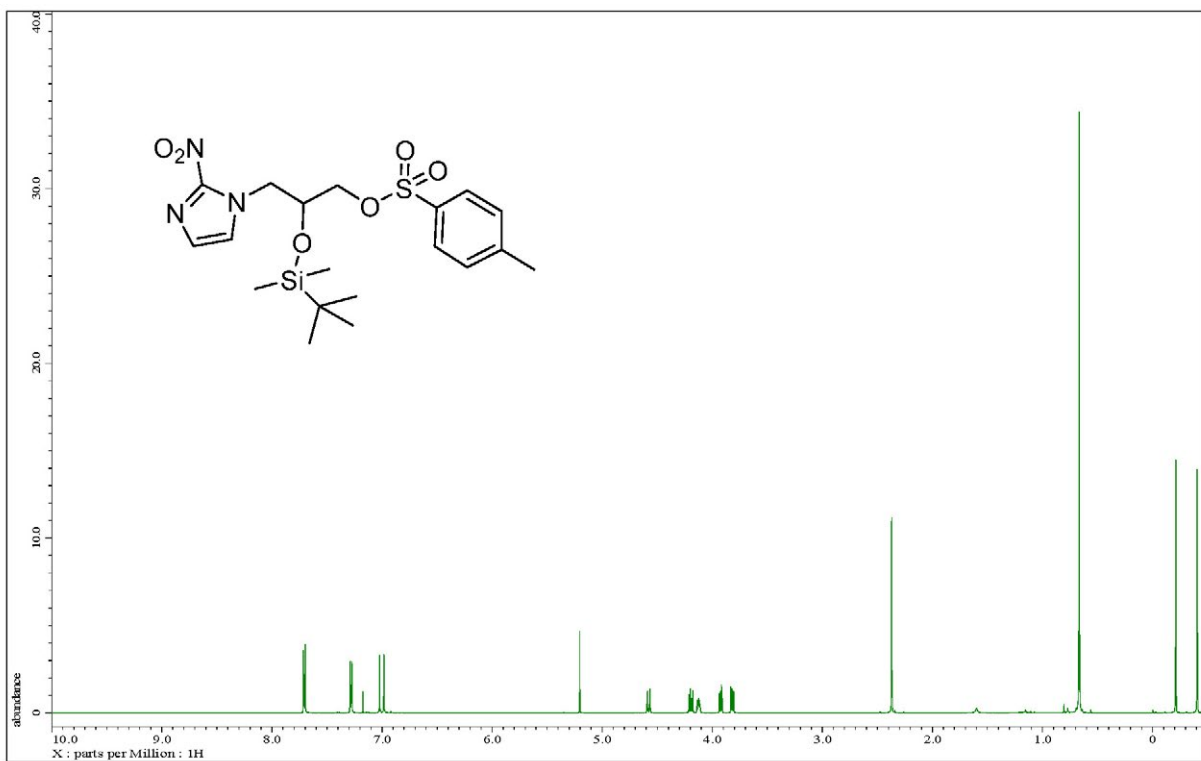


Figure S7. ^1H NMR spectrum (600 MHz, CDCl_3) of compound 5.

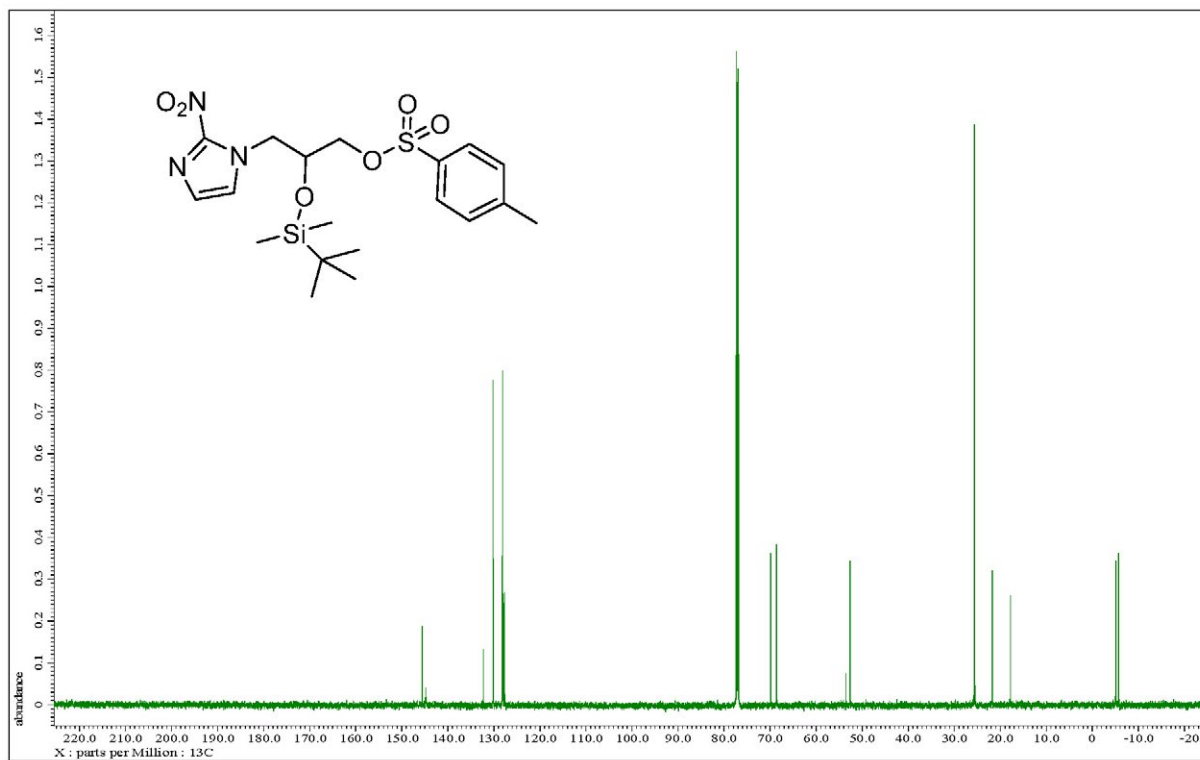


Figure S8. ¹³C NMR spectrum (150 MHz, CDCl₃) of compound 5.

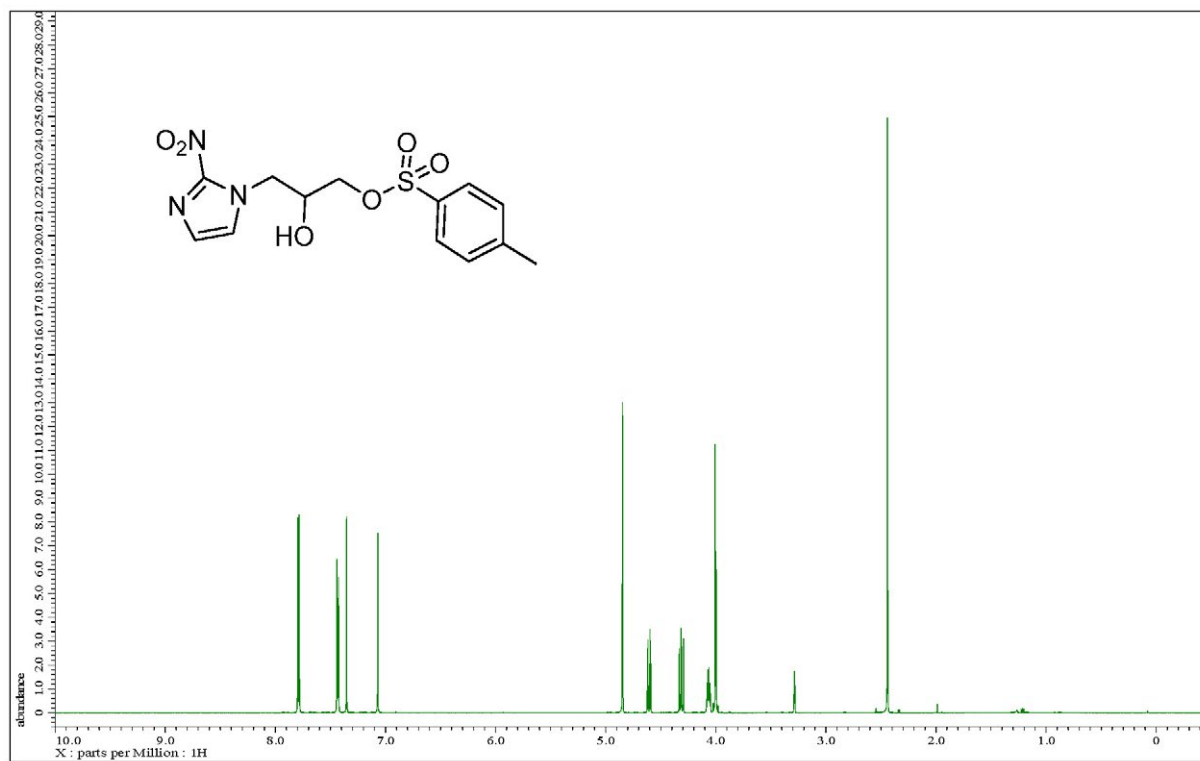


Figure S9. ¹H NMR spectrum (600 MHz, CD₃OD) of compound 6.

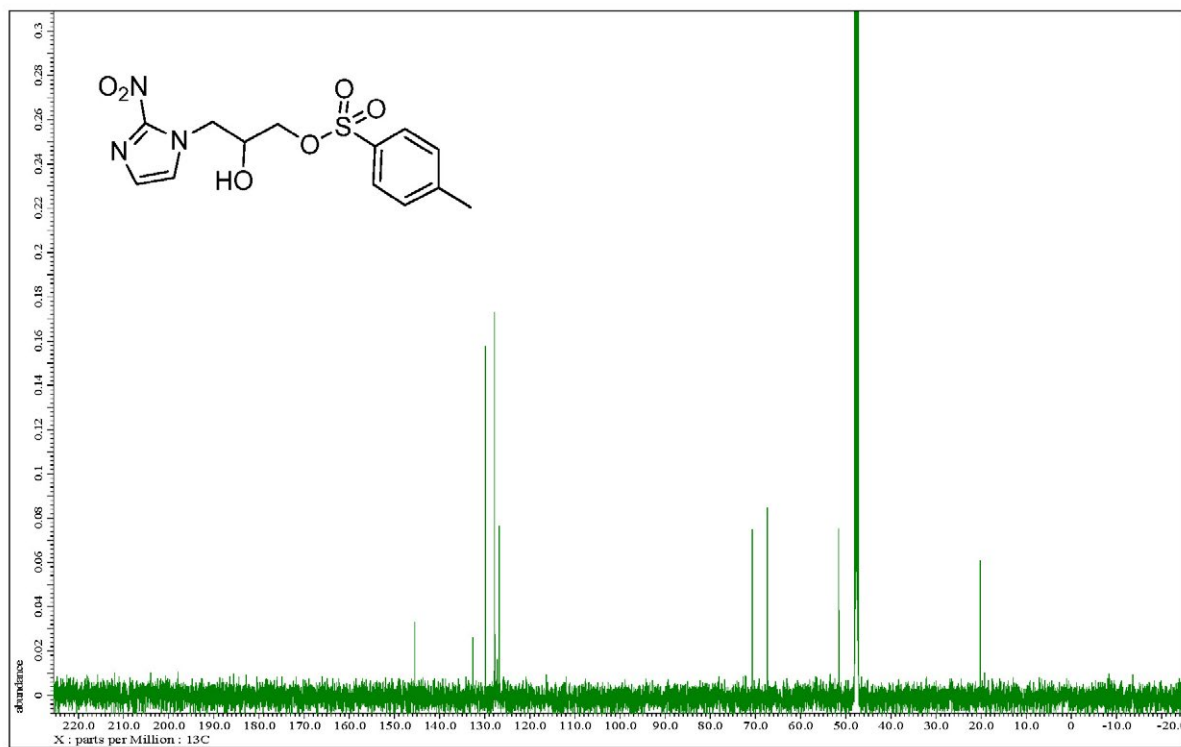


Figure S10. ^{13}C NMR spectrum (150 MHz, CD_3OD) of compound 6.

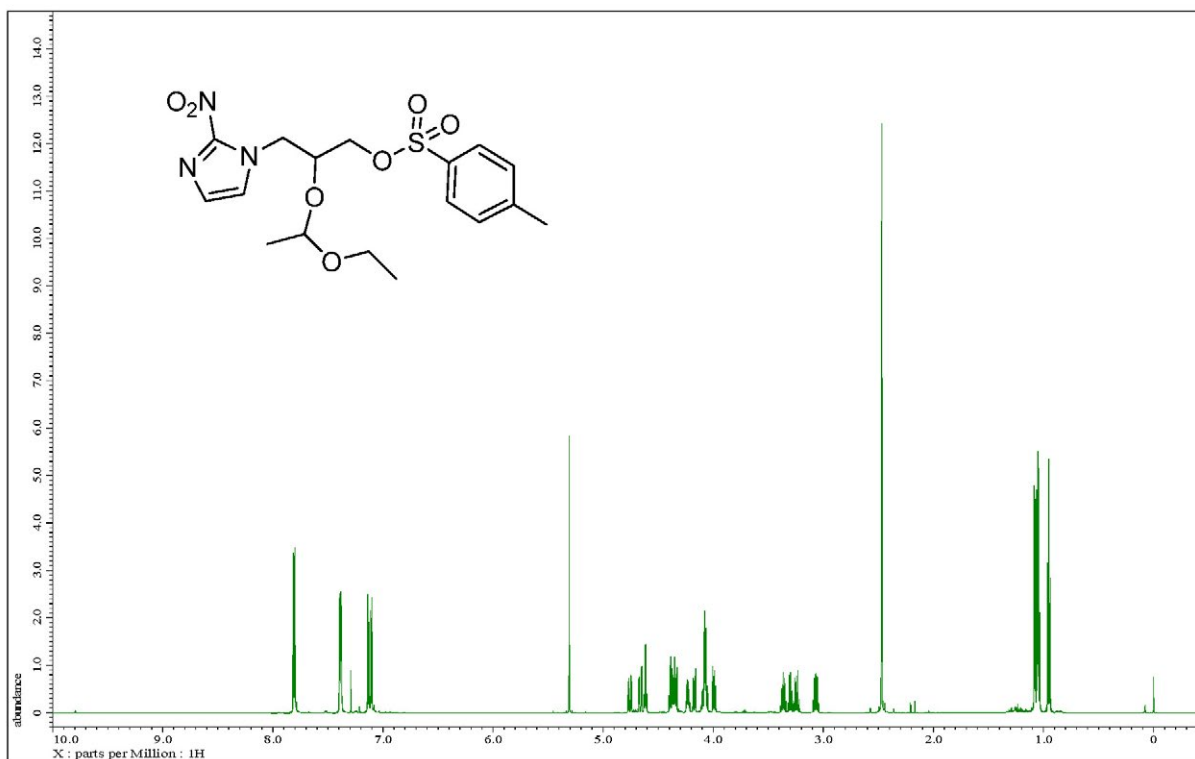


Figure S11. ^1H NMR spectrum (600 MHz, CDCl_3) of compound 7.

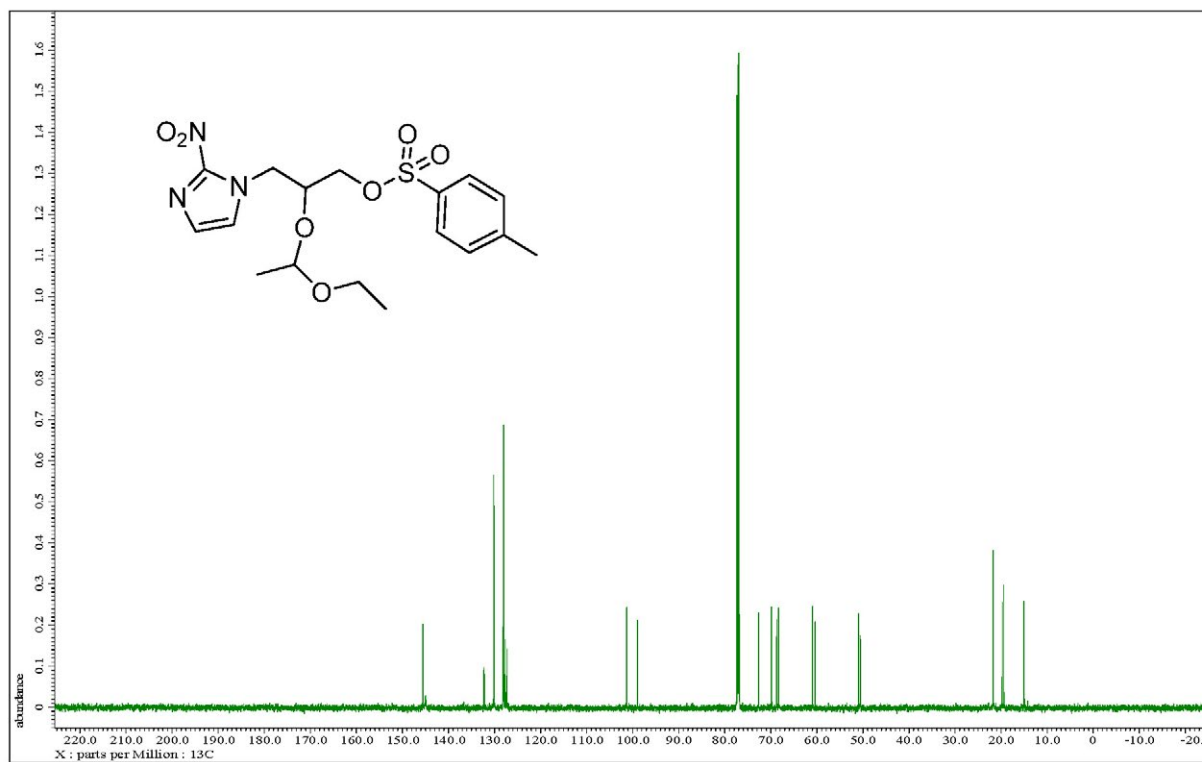


Figure S12. ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound 7.

HPLC

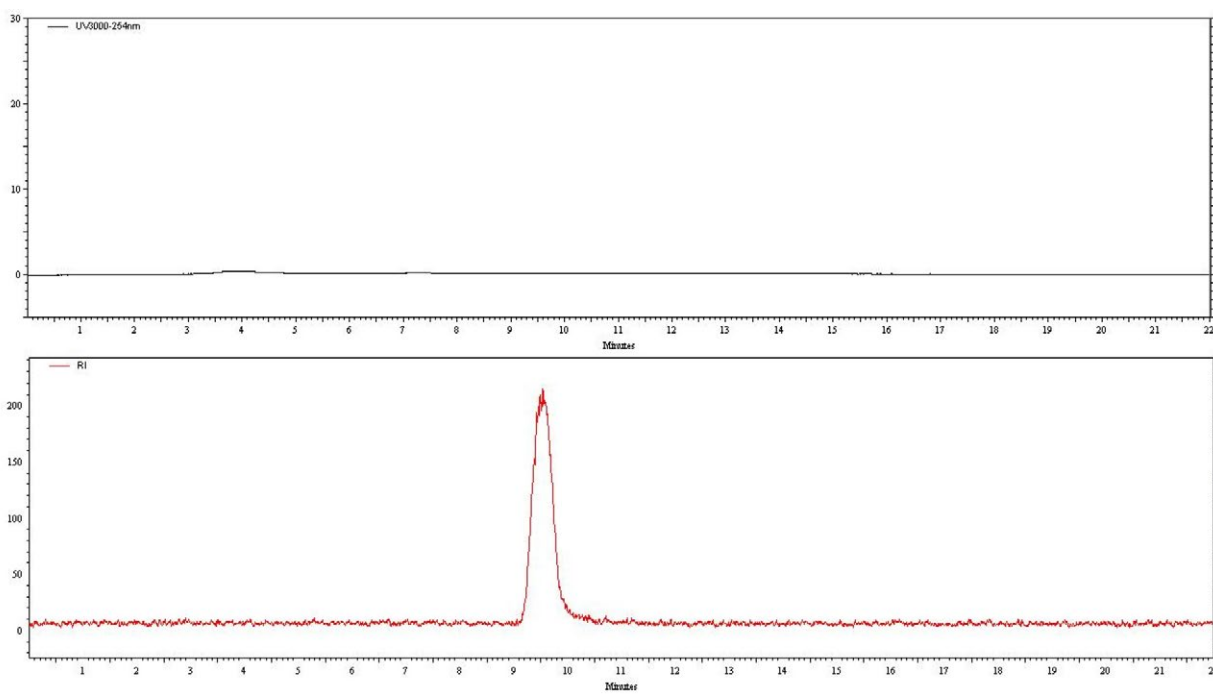


Figure S13. HPLC chromatogram of $[^{18}\text{F}]$ FMISO.

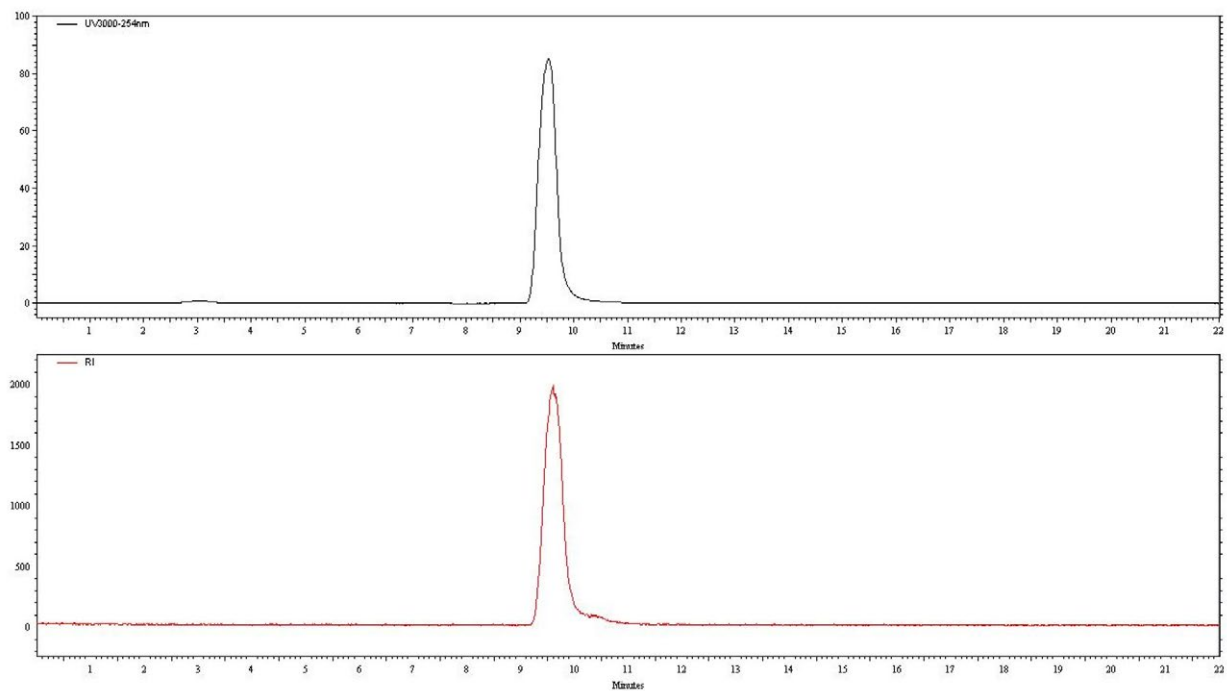


Figure S14. HPLC chromatogram for co-injection of [^{18}F]FMISO with reference standard FMISO.