

Supporting Information

Synthesis of Two Novel [¹⁸F]Fluorobenzene-Containing Radiotracers via Spirocyclic Iodonium Ylides and Positron Emission Tomography Imaging of Translocator Protein (18 kDa) in Ischemic Brain

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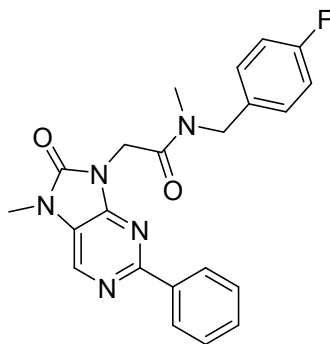
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1. Purities of 5 , 6 , 10 and 17 determined by HPLC	S2
2. Experimental Spectra (¹ H NMR and ¹³ C NMR)	S5

1. HPLC analytic charts of **5**, **6**, **10**, and **17**

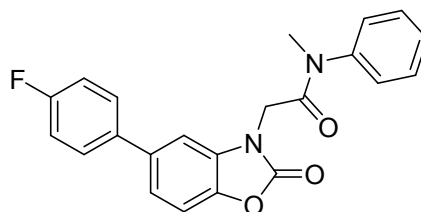
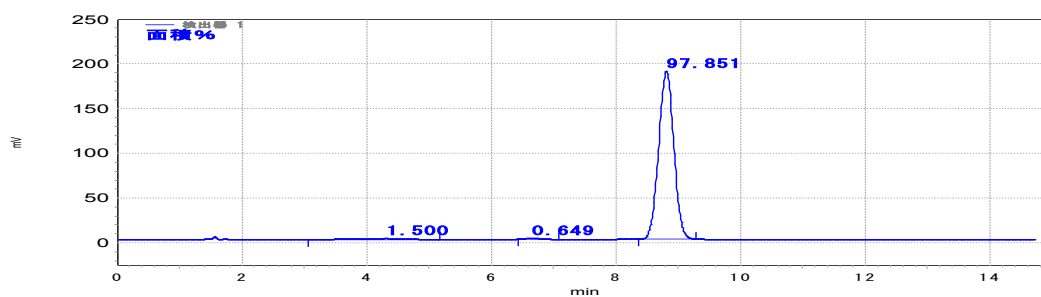


5

Column: Inertsil ODS-3 (4.6x150 mm)

Solvents: CH₃CN/H₂O =50/50(v/v)

Flow rate: 1.0 mL/min, Detector: UV-254 nm

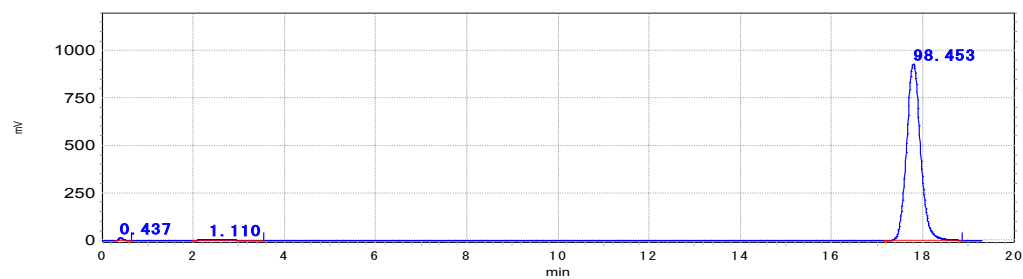


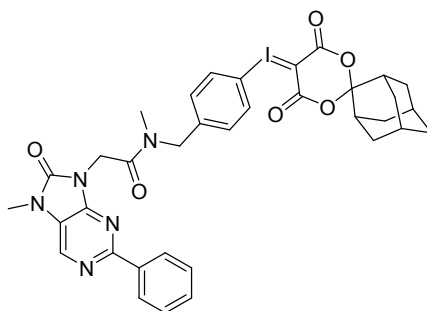
6

Column: CAPCELL PAK C18 UG80 (4.6x250 mm)

Solvents: CH₃CN/H₂O/Et₃N =55/45/0.1(v/v/v)

Flow rate: 1.0 mL/min, Detector: UV-254 nm



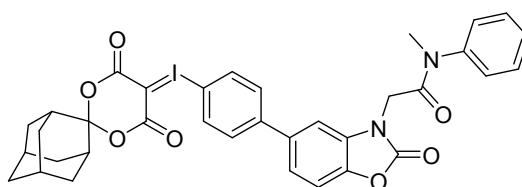
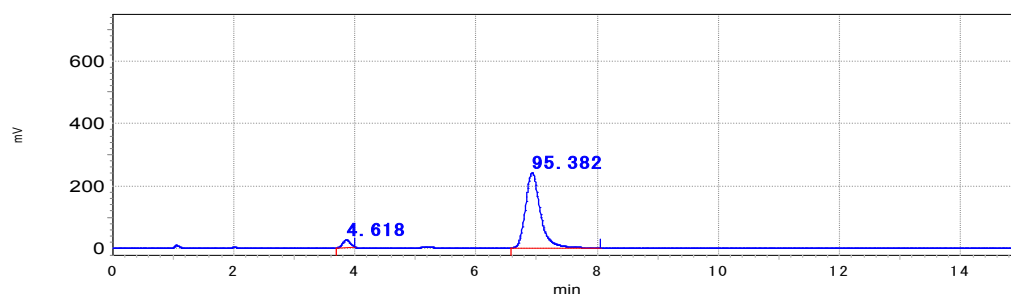


10

Column: Inertsil ODS-3 (4.6x150 mm)

Solvents: CH₃CN/H₂O =50/50 (v/v)

Flow rate: 1.0 mL/min; Detector: UV-254 nm

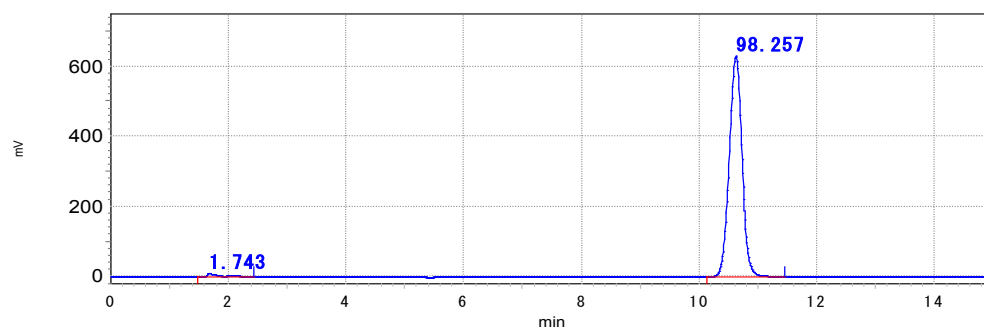


17

Column: CAPCELL PAK C18 UG80 (4.6x250 mm)

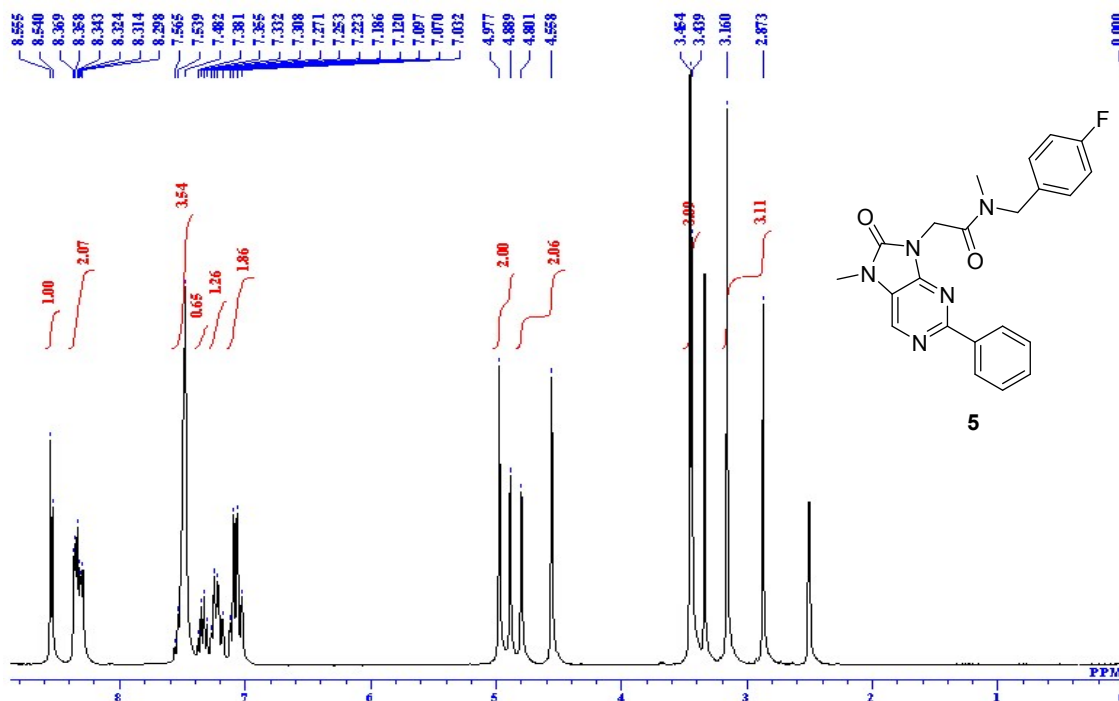
Solvents: CH₃CN/H₂O/Et₃N =55/45/0.1(v/v/v)

Flow rate: 1.0 mL/min; Detector: UV-254 nm

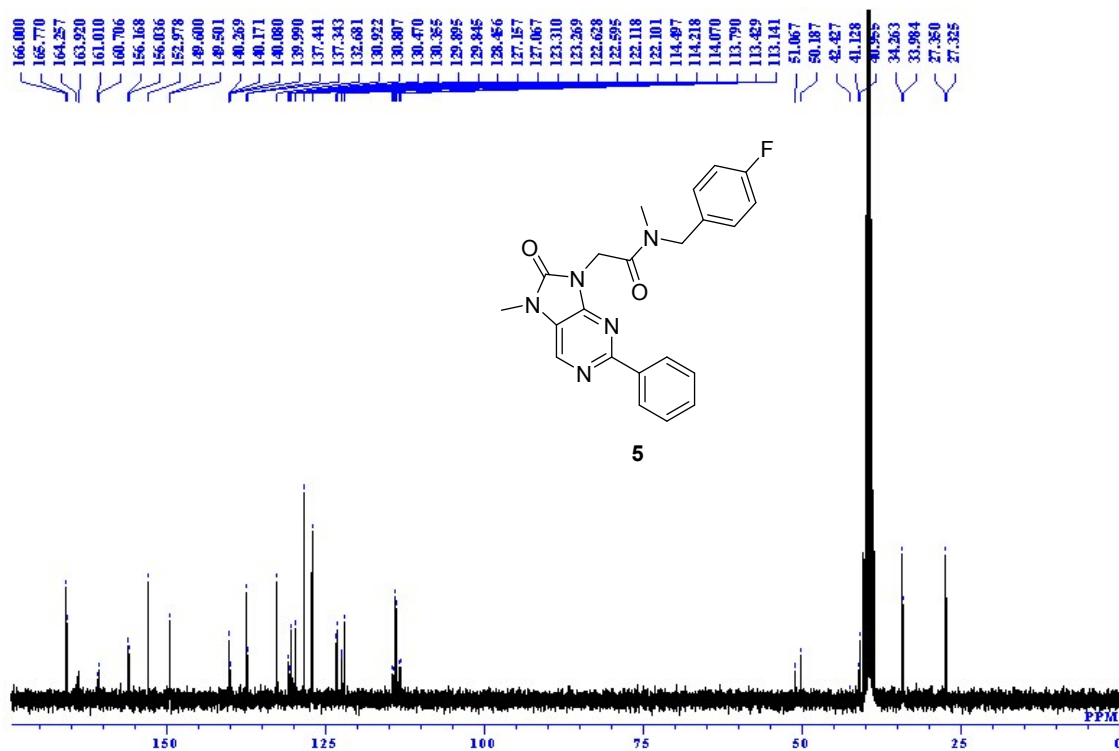


2. Experimental Spectra

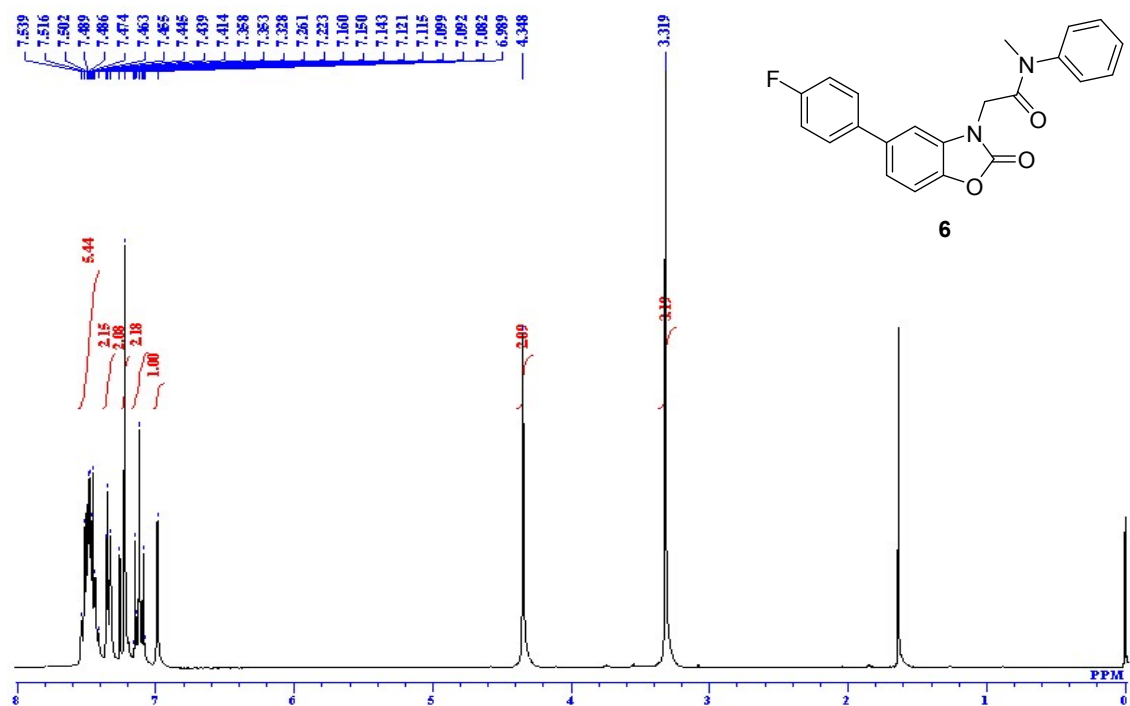
^1H NMR spectrum (300 MHz, $\text{DMSO}-d_6$) of **5**



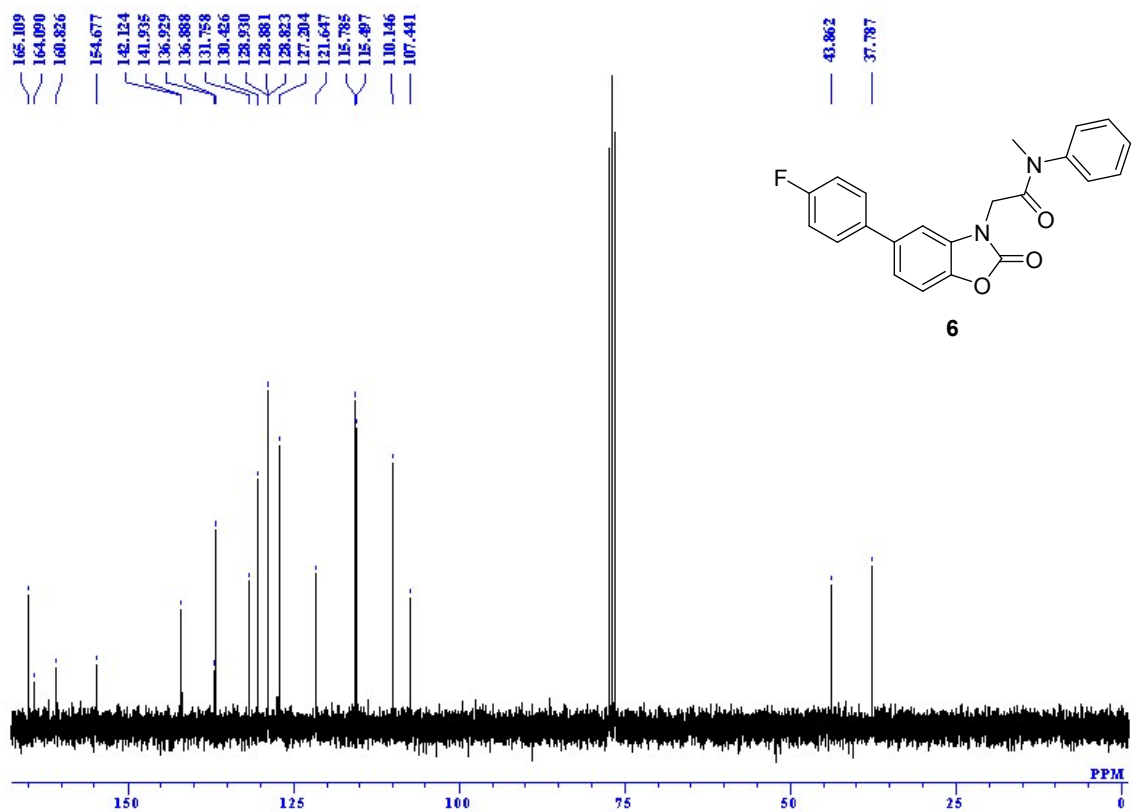
^{13}C NMR spectrum (75 MHz, $\text{DMSO}-d_6$) of **5**



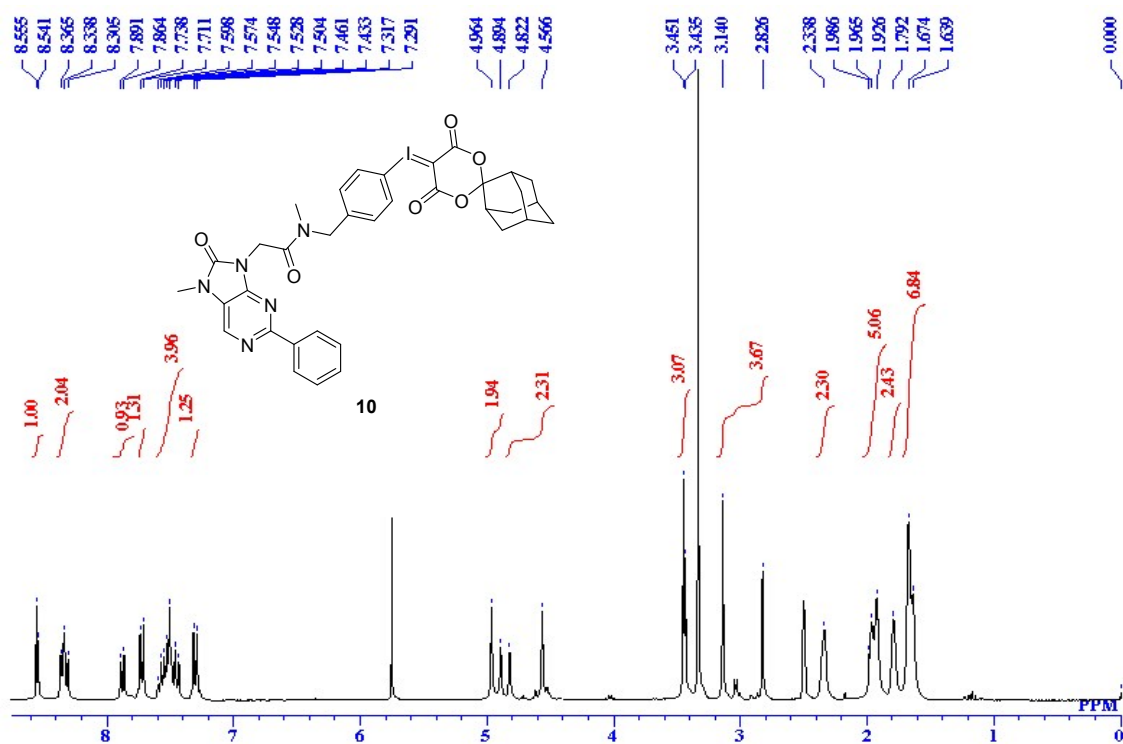
^1H NMR spectrum (300 MHz, CDCl_3) of **6**



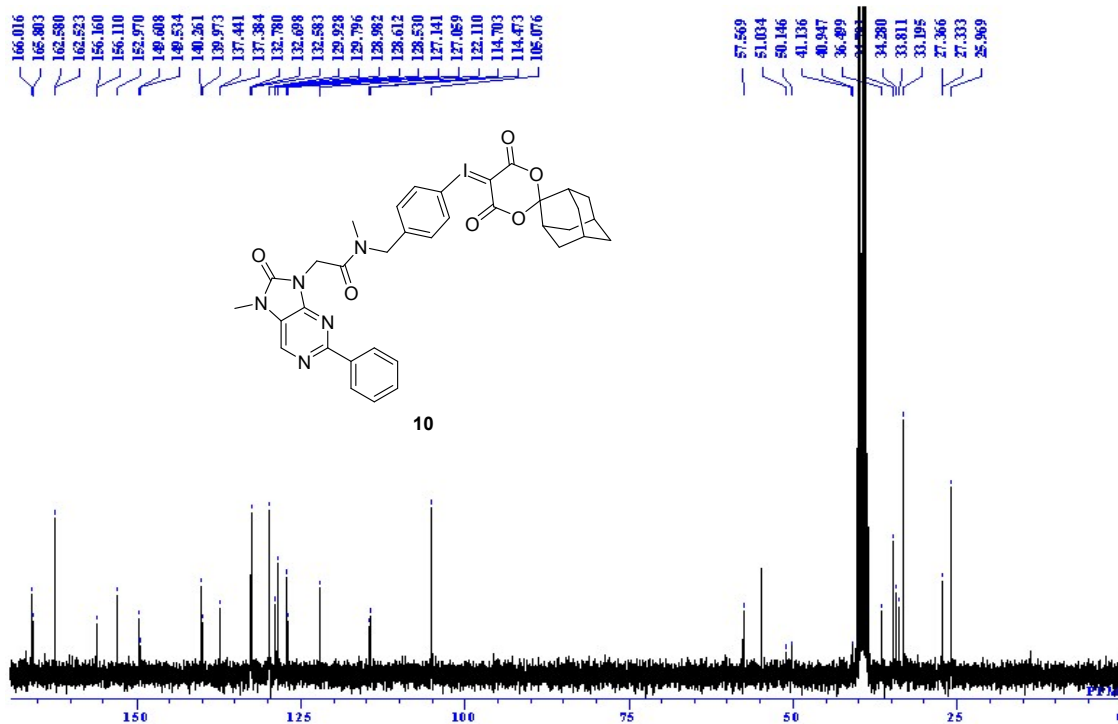
^{13}C NMR spectrum (75 MHz, CDCl_3) of **6**



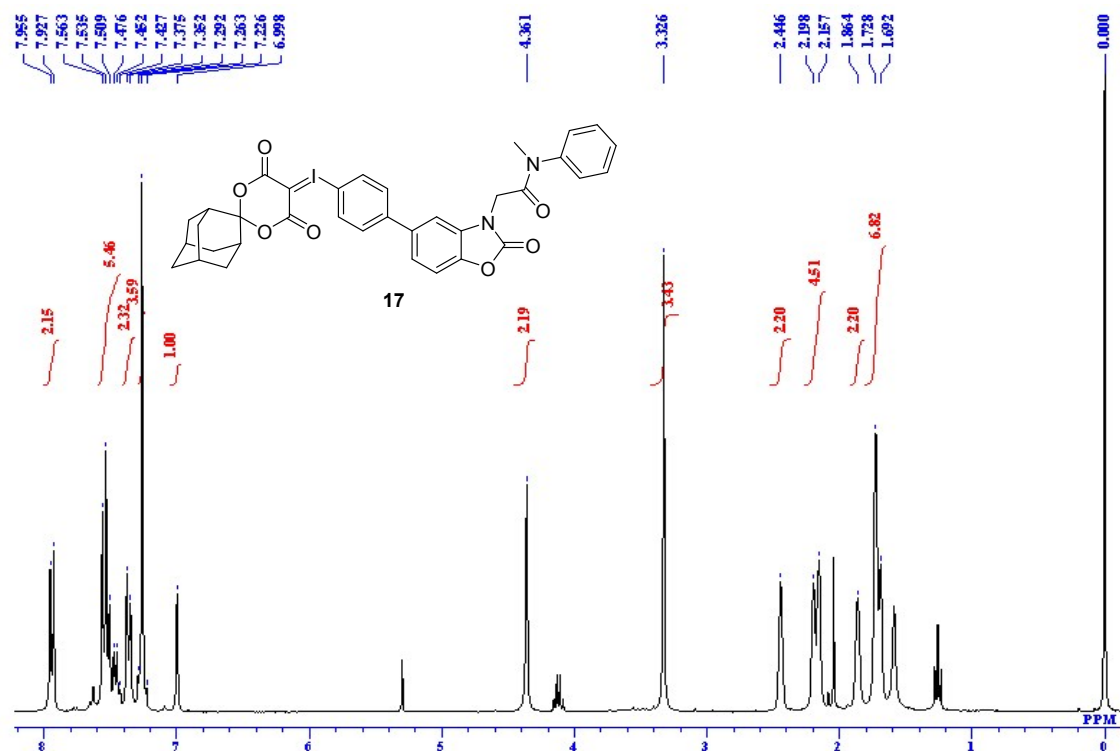
^{13}C NMR spectrum (75 MHz, $\text{DMSO}-d_6$) of **10**



^{13}C NMR spectrum (75 MHz, $\text{DMSO}-d_6$) of **10**



^1H NMR spectrum (300 MHz, CDCl_3) of **17**



^{13}C NMR spectrum (75 MHz, CDCl_3) of **17**

