

## Synthesis of a Novel Series of 4-Arylpiperazinyl Derivatives Linked to a 2-(Pyridin-3-yl)-1H-benzimidazole as New Delavirdine Analogues

David Pessoa-Mahana,<sup>\*,a</sup> Andrés Núñez,<sup>a</sup> Christian Espinosa,<sup>a</sup> Jaime Mella-Raipán<sup>a</sup>  
and Hernán Pessoa-Mahana<sup>b</sup>

<sup>a</sup>Departamento de Farmacia, Facultad de Química, Pontificia Universidad Católica de Chile,  
Casilla 306, Santiago 22, Chile

<sup>b</sup>Departamento de Química Orgánica y Físico-Química, Facultad de Ciencias Químicas y  
Farmacéuticas, Universidad de Chile, Casilla 233, Santiago 1, Chile

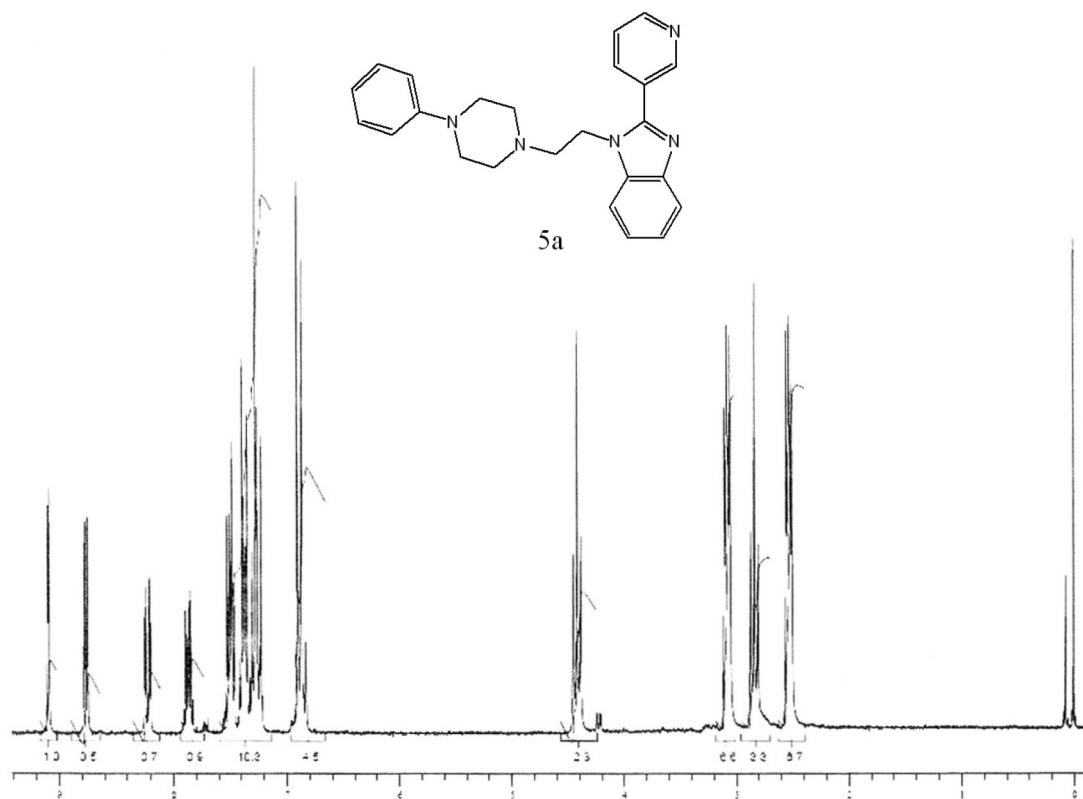


Figure S1. <sup>1</sup>H NMR spectrum of compound **5a** (CDCl<sub>3</sub>, 200 MHz).

\*e-mail: cpessoa@uc.cl

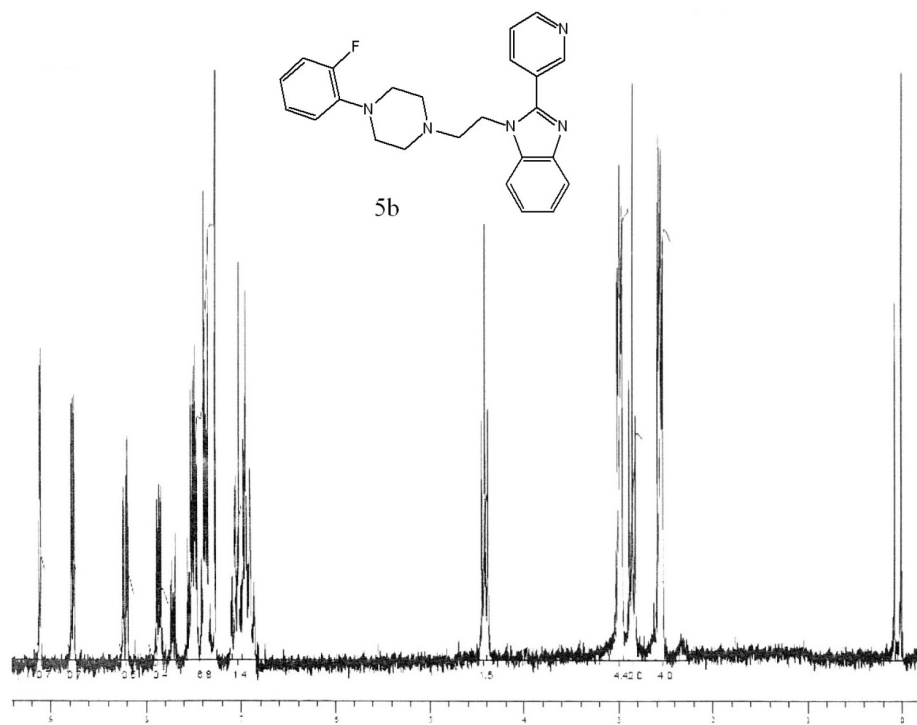


Figure S2. <sup>1</sup>H NMR spectrum of compound **5b** (CDCl<sub>3</sub>, 200 MHz).

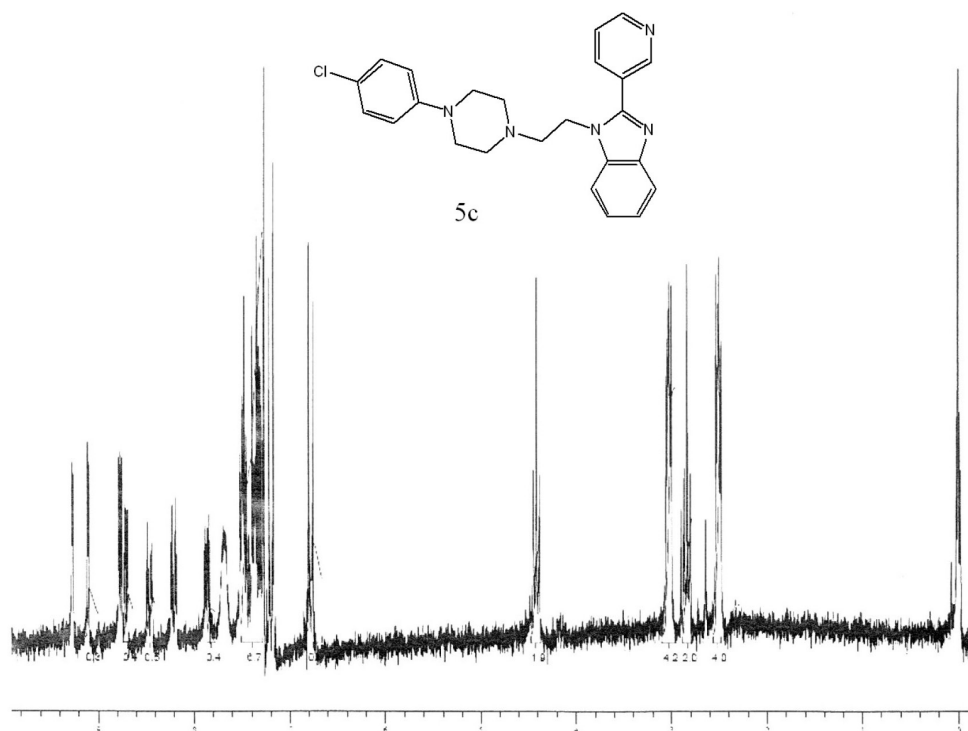


Figure S3. <sup>1</sup>H NMR spectrum of compound **5c** (CDCl<sub>3</sub>, 200 MHz).

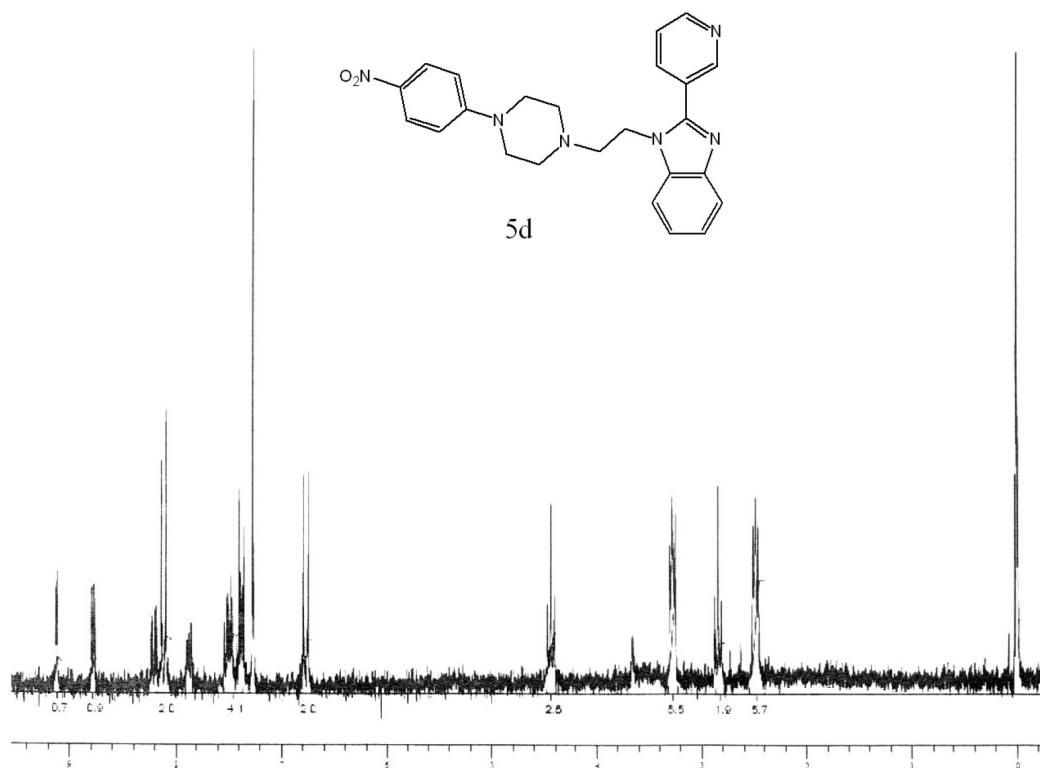


Figure S4. <sup>1</sup>H NMR spectrum of compound **5d** (CDCl<sub>3</sub>, 200 MHz).

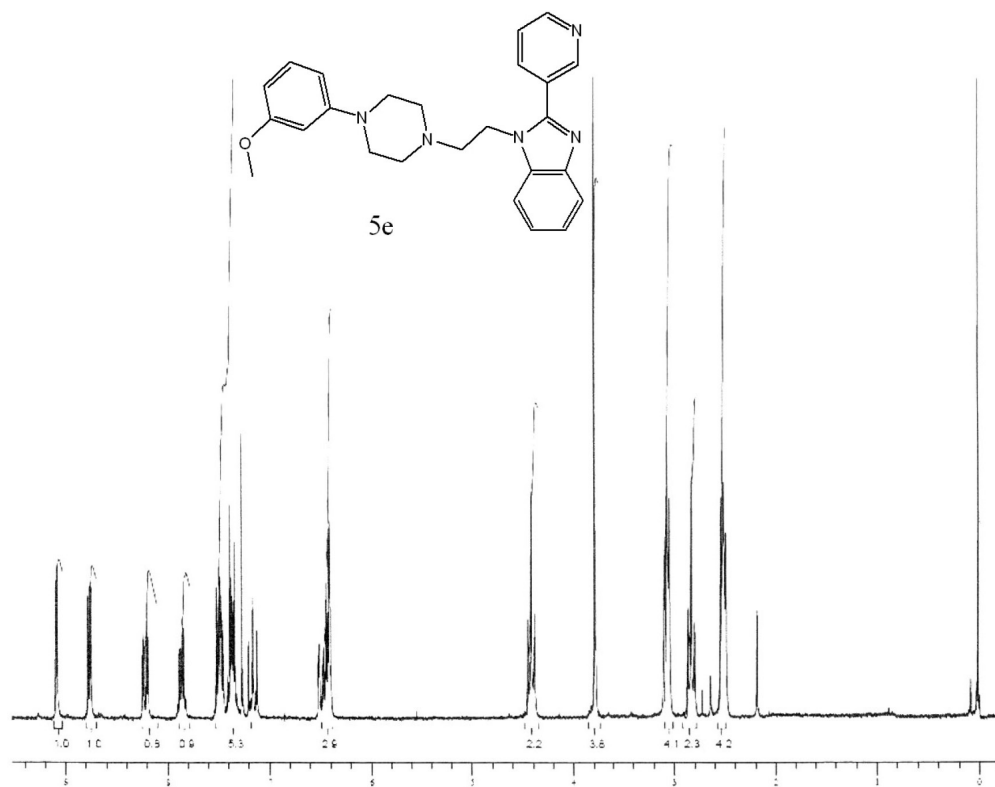


Figure S5. <sup>1</sup>H NMR spectrum of compound **5e** (CDCl<sub>3</sub>, 200 MHz).

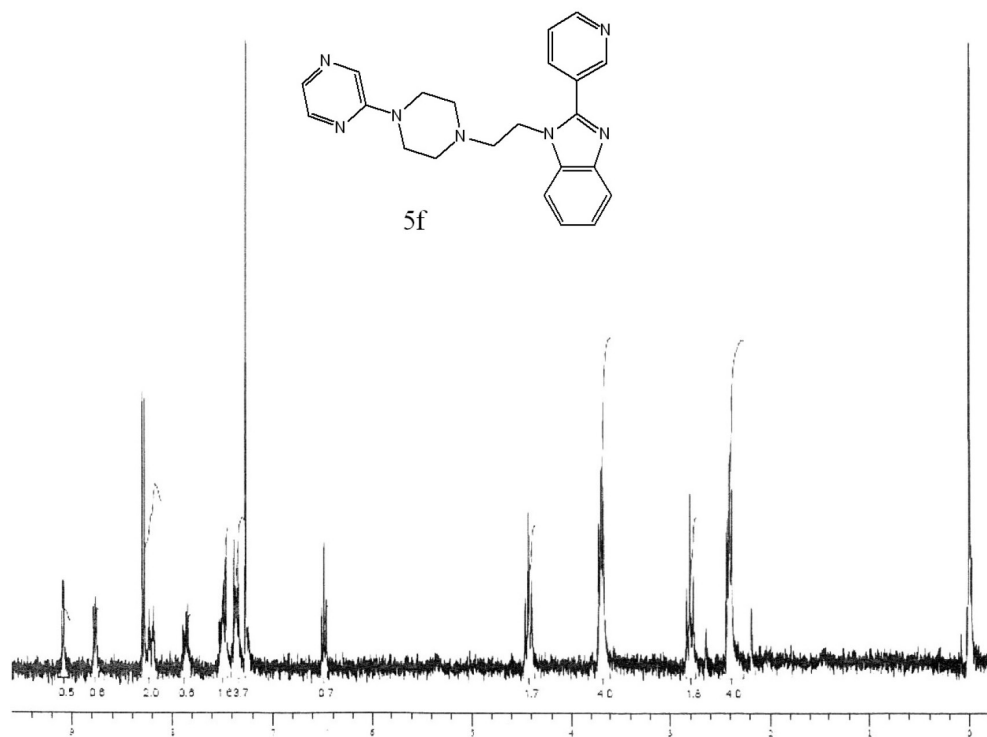


Figure S6. <sup>1</sup>H NMR spectrum of compound **5f** (CDCl<sub>3</sub>, 200 MHz).

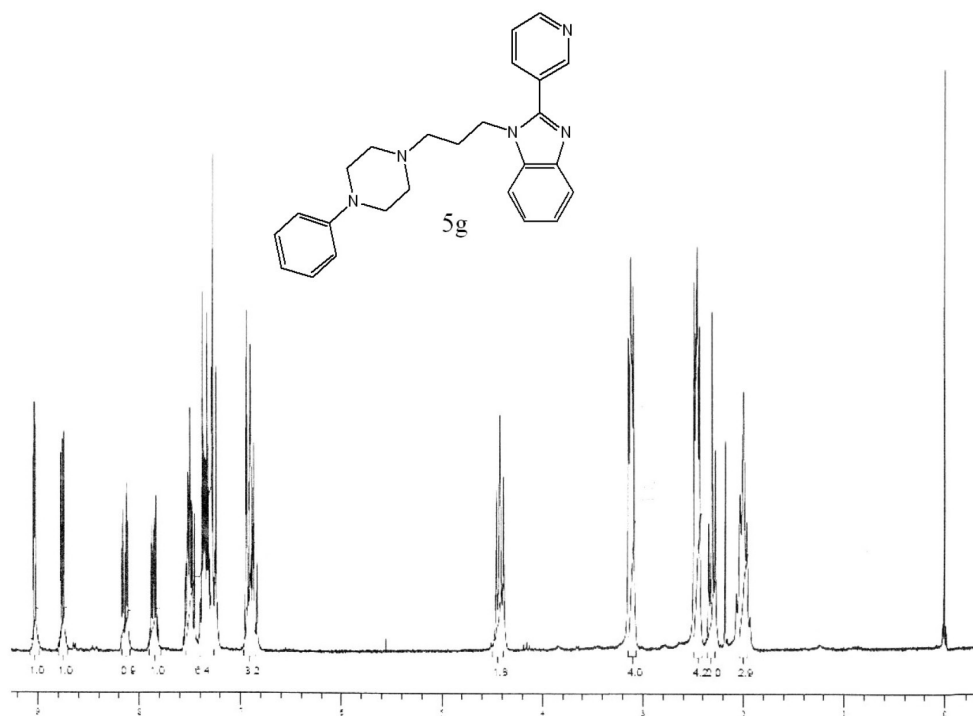
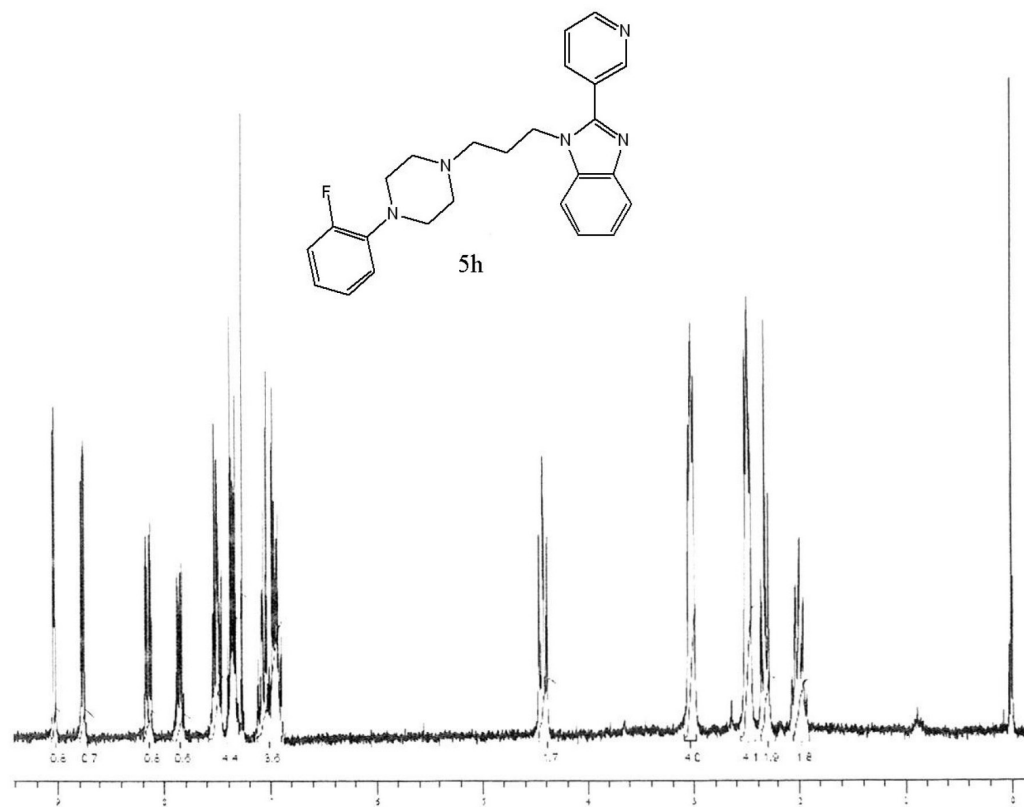
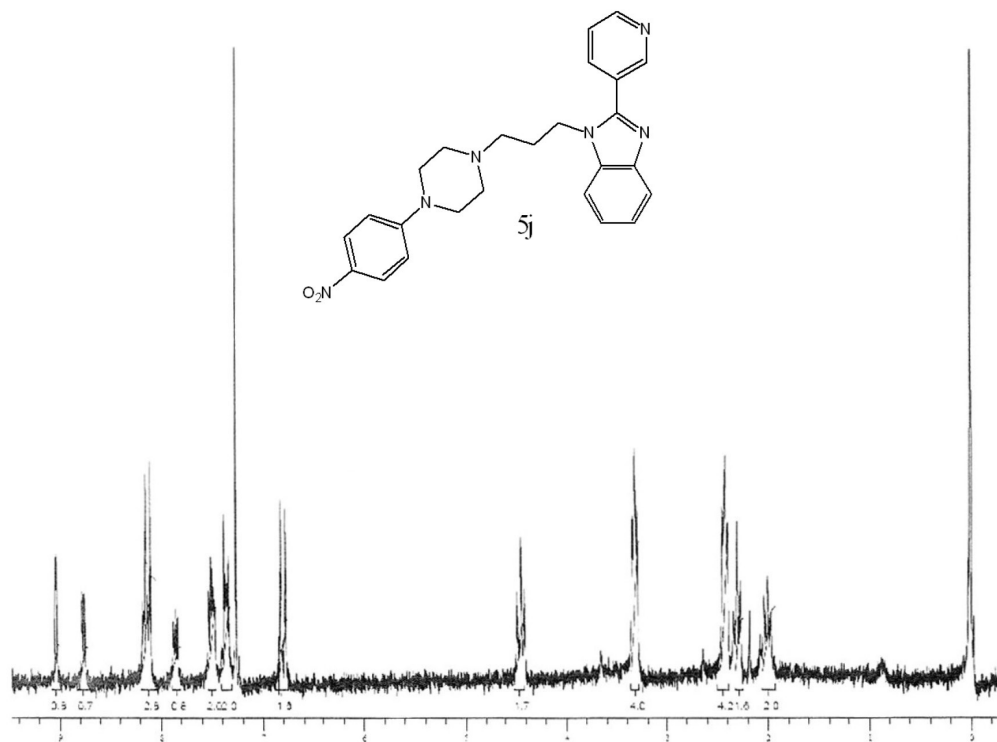


Figure S7. <sup>1</sup>H NMR spectrum of compound **5g** (CDCl<sub>3</sub>, 200 MHz).



**Figure S8.** <sup>1</sup>H NMR spectrum of compound **5h** (CDCl<sub>3</sub>, 200 MHz).



**Figure S9.** <sup>1</sup>H NMR spectrum of compound **5j** (CDCl<sub>3</sub>, 200 MHz).

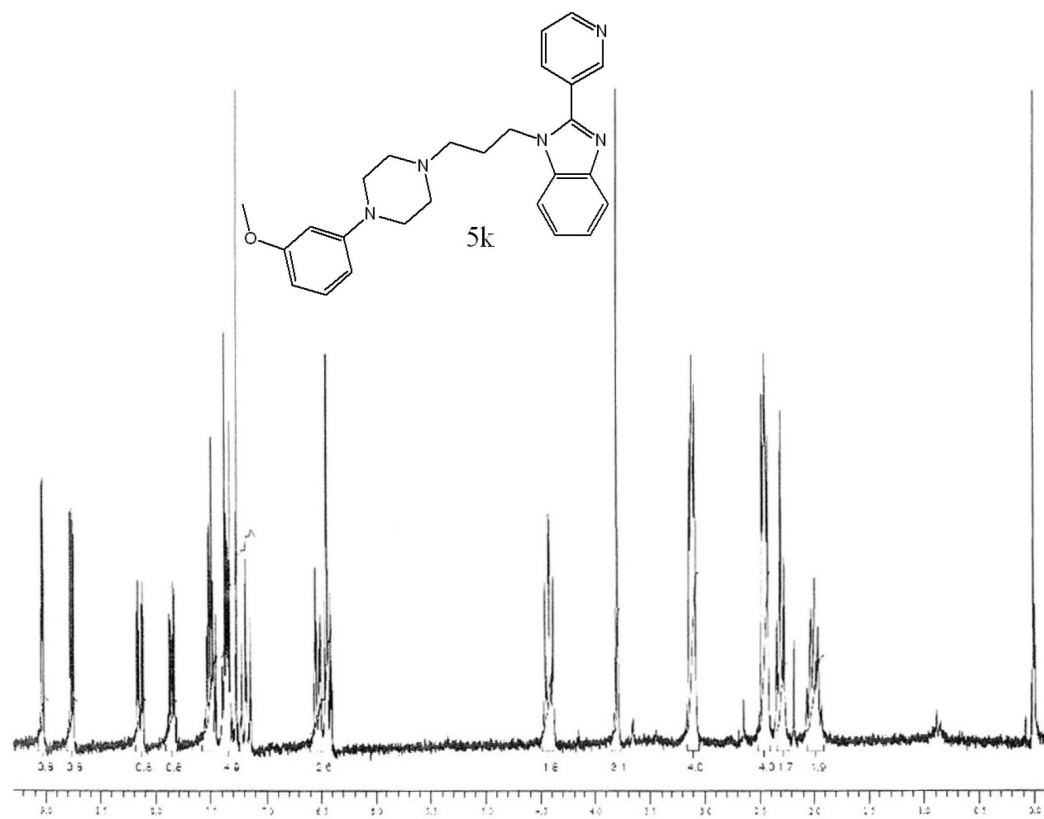


Figure S10. <sup>1</sup>H NMR spectrum of compound **5k** (CDCl<sub>3</sub>, 200 MHz).

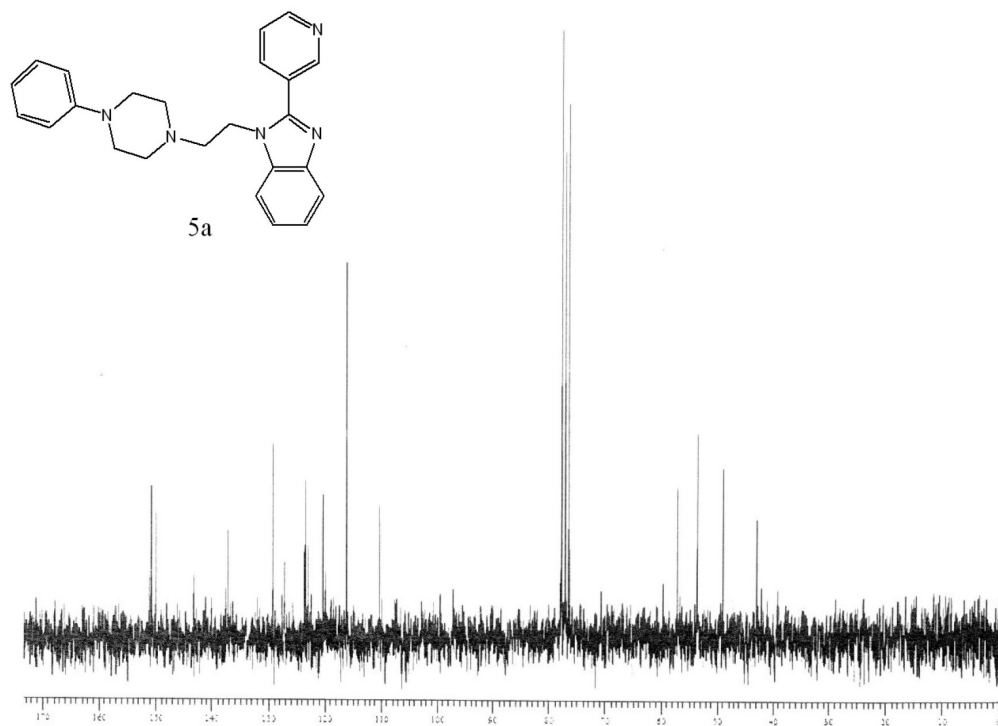
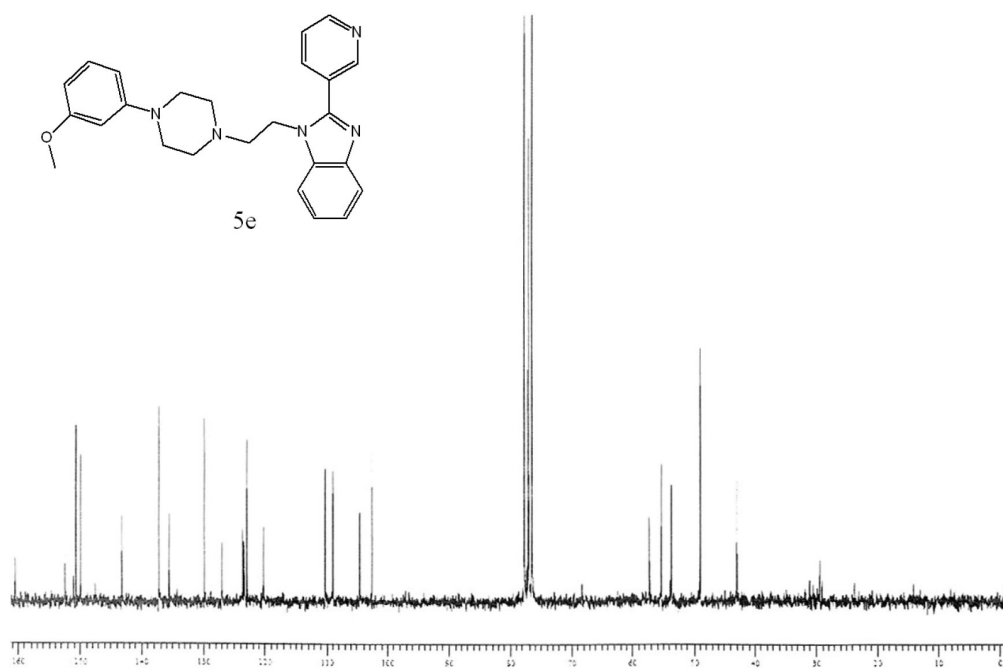
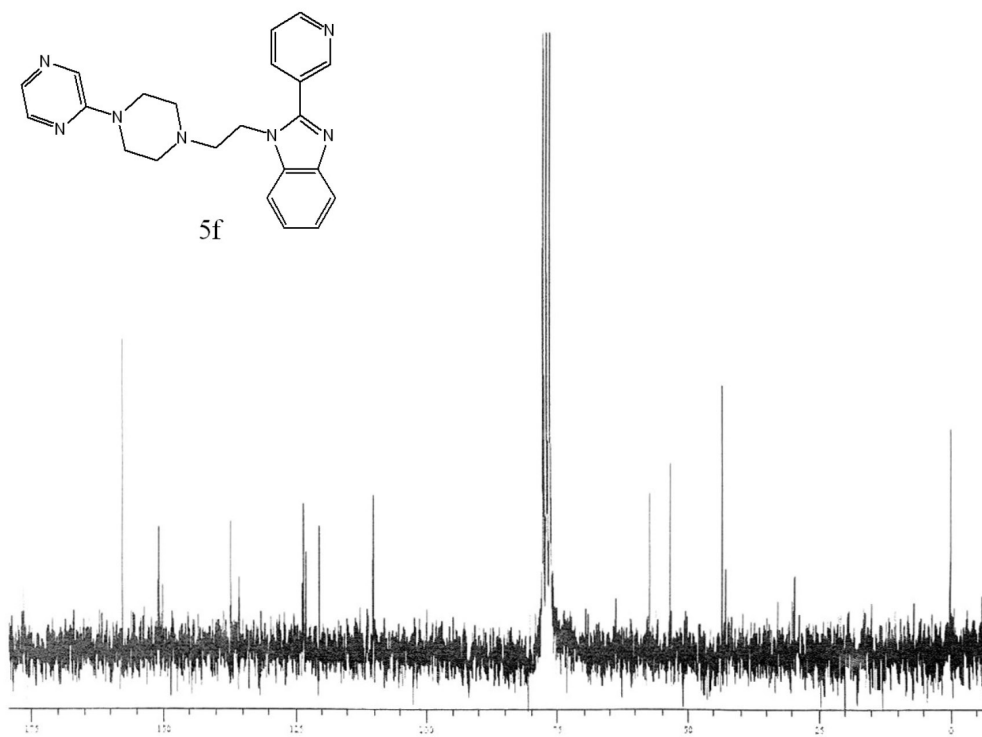


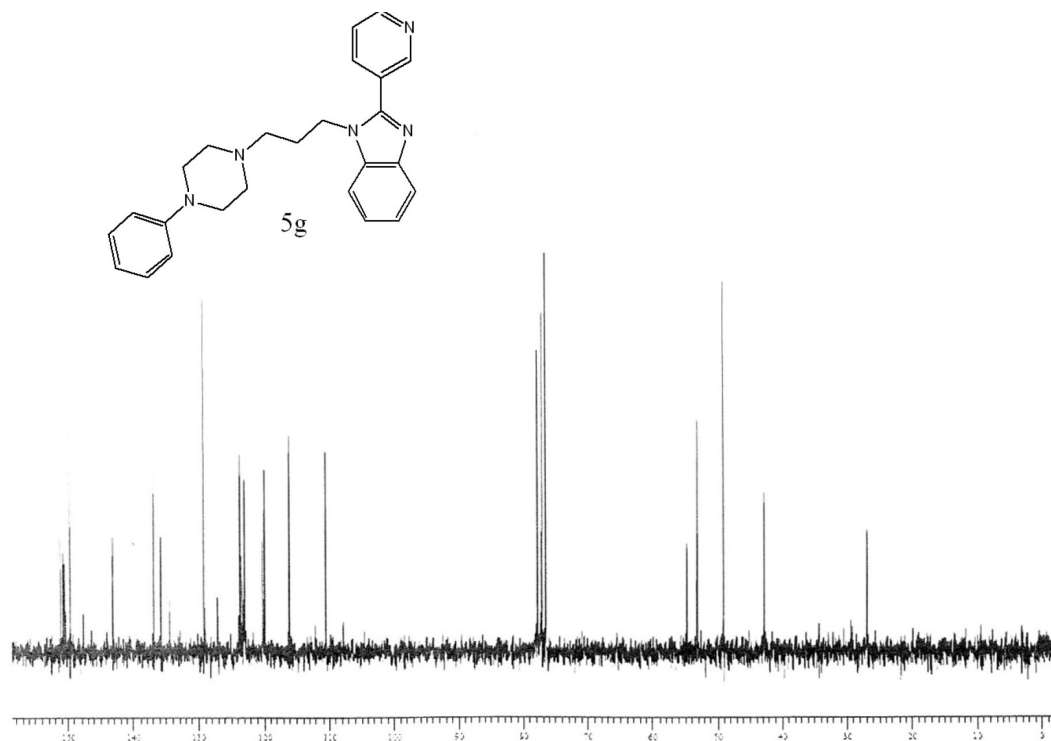
Figure S11. <sup>13</sup>C NMR spectrum of compound **5a** (CDCl<sub>3</sub>, 50 MHz).



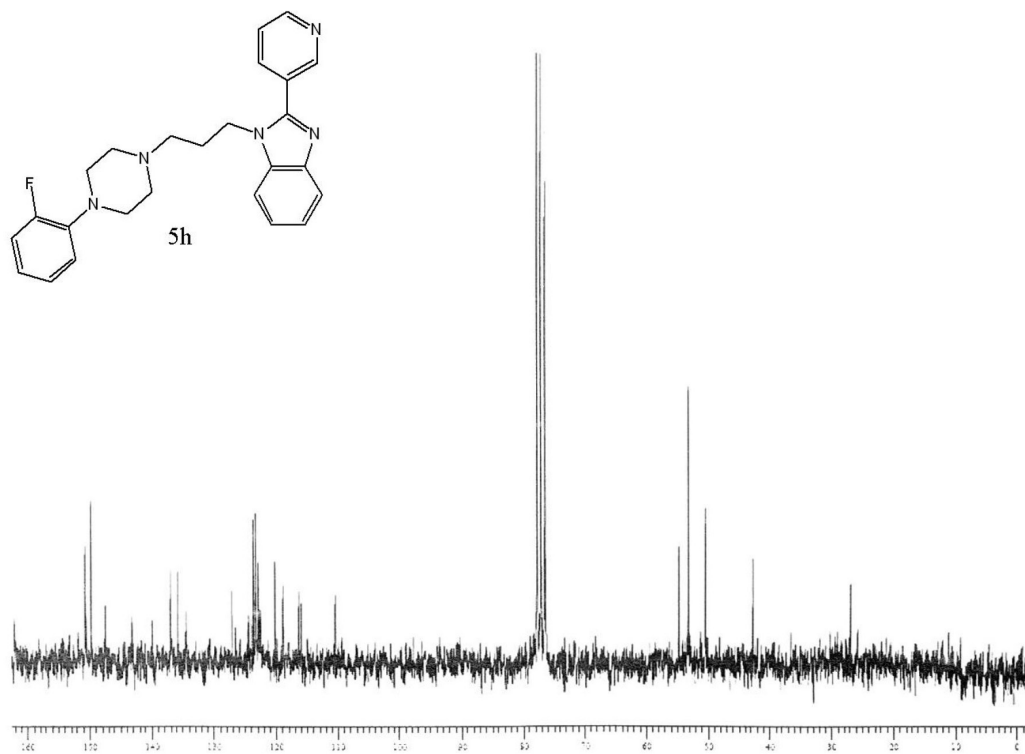
**Figure S12.**  $^{13}\text{C}$  NMR spectrum of compound **5e** ( $\text{CDCl}_3$ , 50 MHz).



**Figure S13.**  $^{13}\text{C}$  NMR spectrum of compound **5f** ( $\text{CDCl}_3$ , 50 MHz).

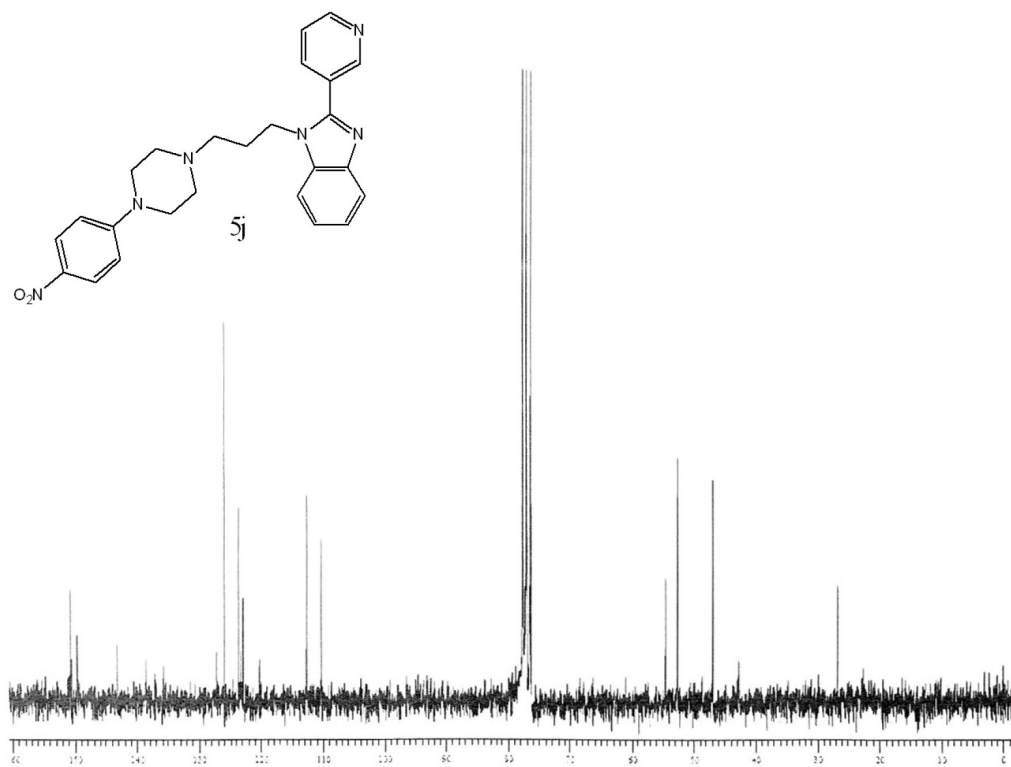


**Figure S14.** <sup>13</sup>C NMR spectrum of compound **5g** (CDCl<sub>3</sub>, 50 MHz).



**Figure S15.** <sup>13</sup>C NMR spectrum of compound **5h** (CDCl<sub>3</sub>, 50 MHz).





**Figure S16.**  $^{13}\text{C}$  NMR spectrum of compound **5j** ( $\text{CDCl}_3$ , 50 MHz).