

**Supplementary Materials:**  
***Ex vivo* and *in vivo* study of some isoquinoline precursors**

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Figure S1

$^1\text{H}$ -NMR spectrum of compound **3**

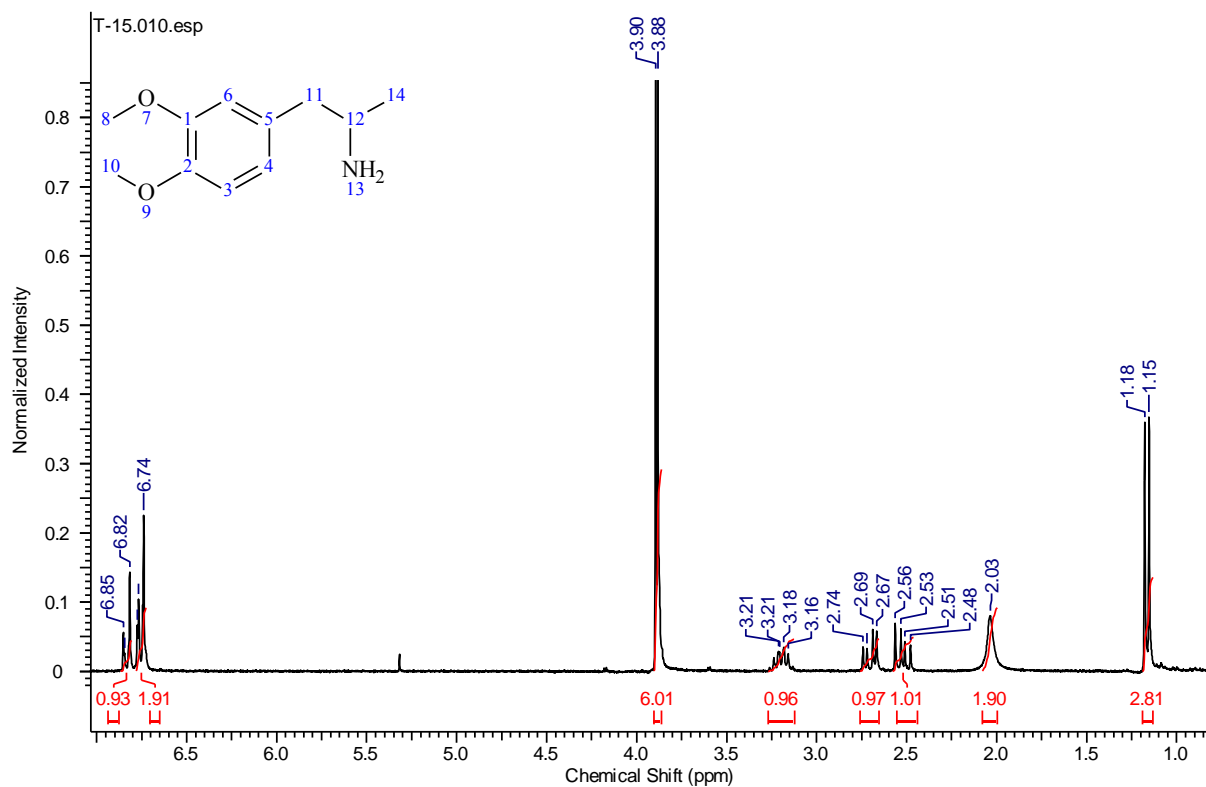


Figure S2

$^{13}\text{C}$ -NMR spectrum of compound **3**

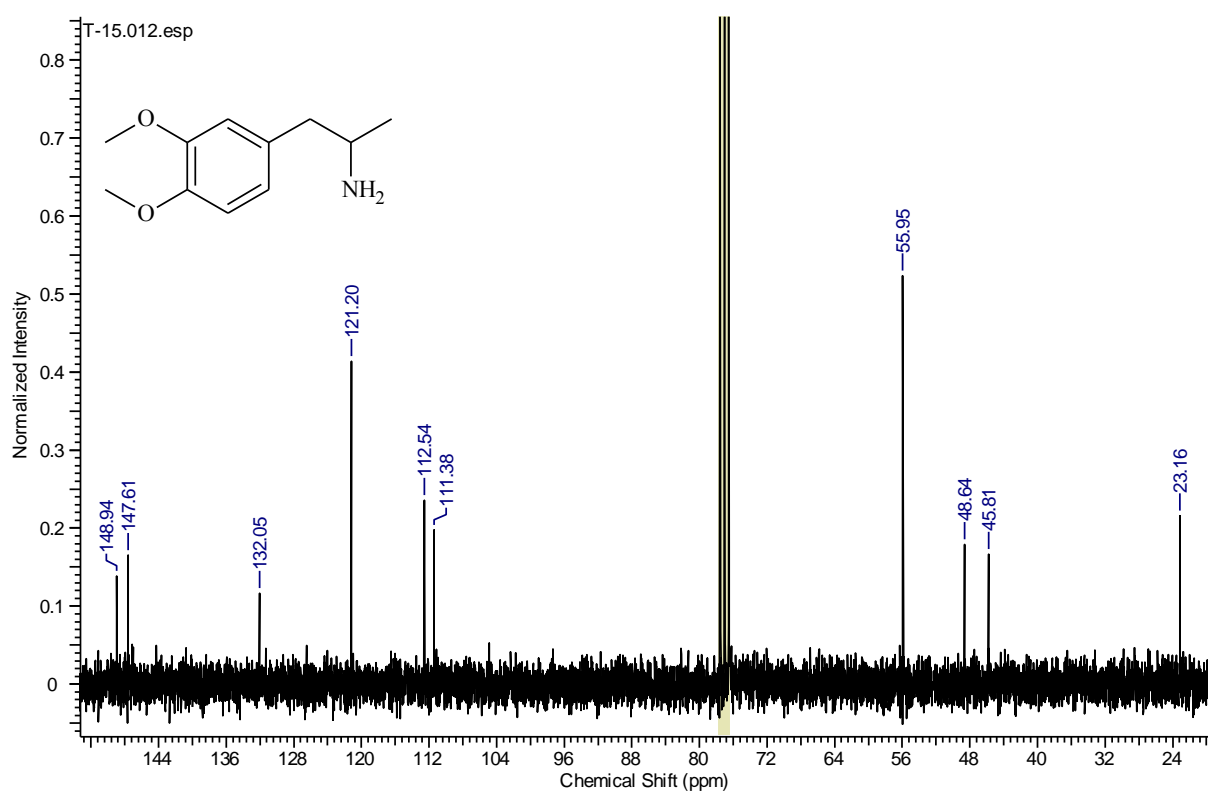


Figure S3

$^1\text{H}$ -NMR spectrum of compound **4a**

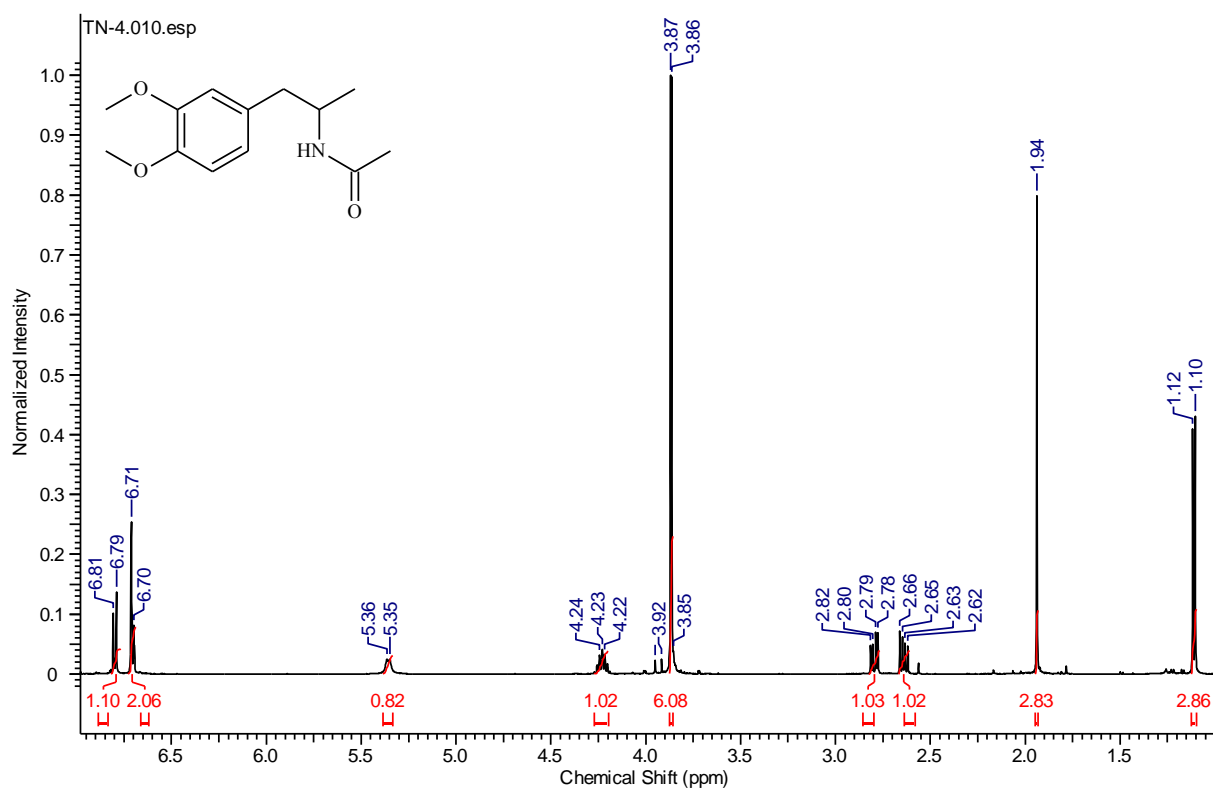


Figure S4

$^{13}\text{C}$ -NMR spectrum of compound **4a**

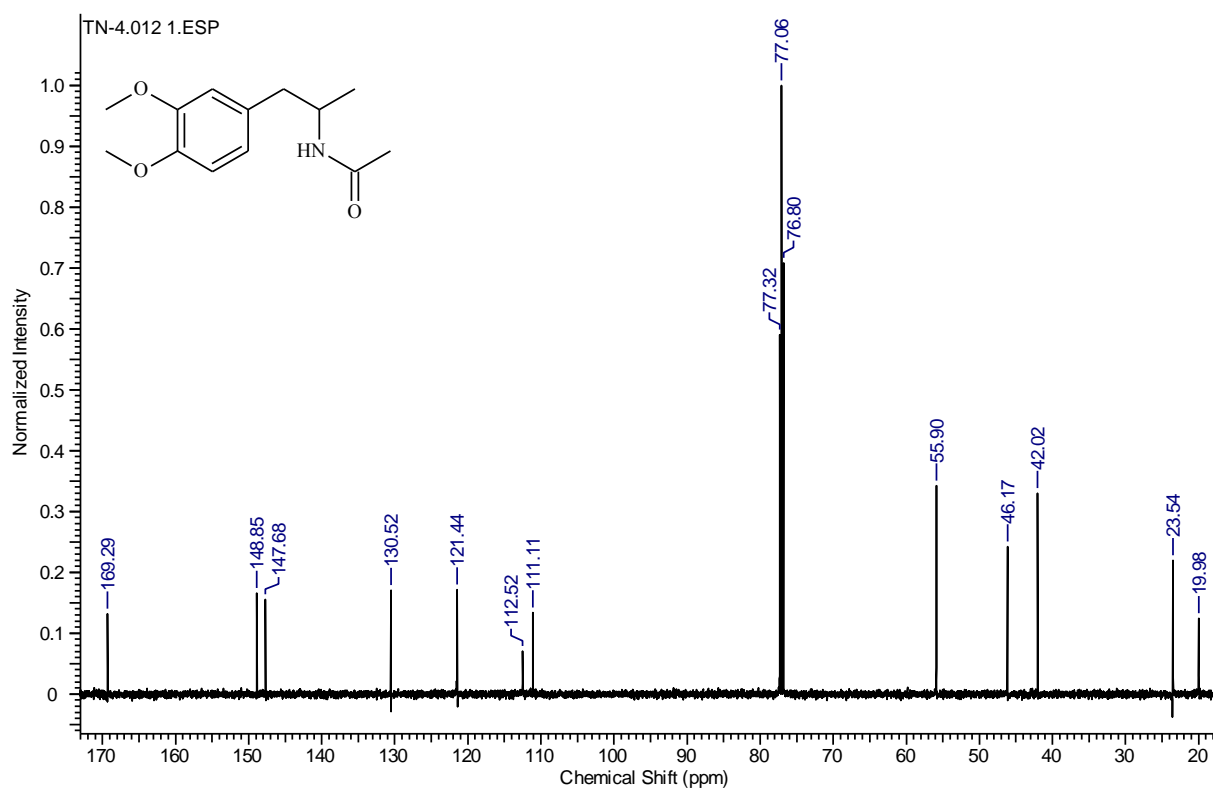


Figure S5

IR spectrum of compound **4a**

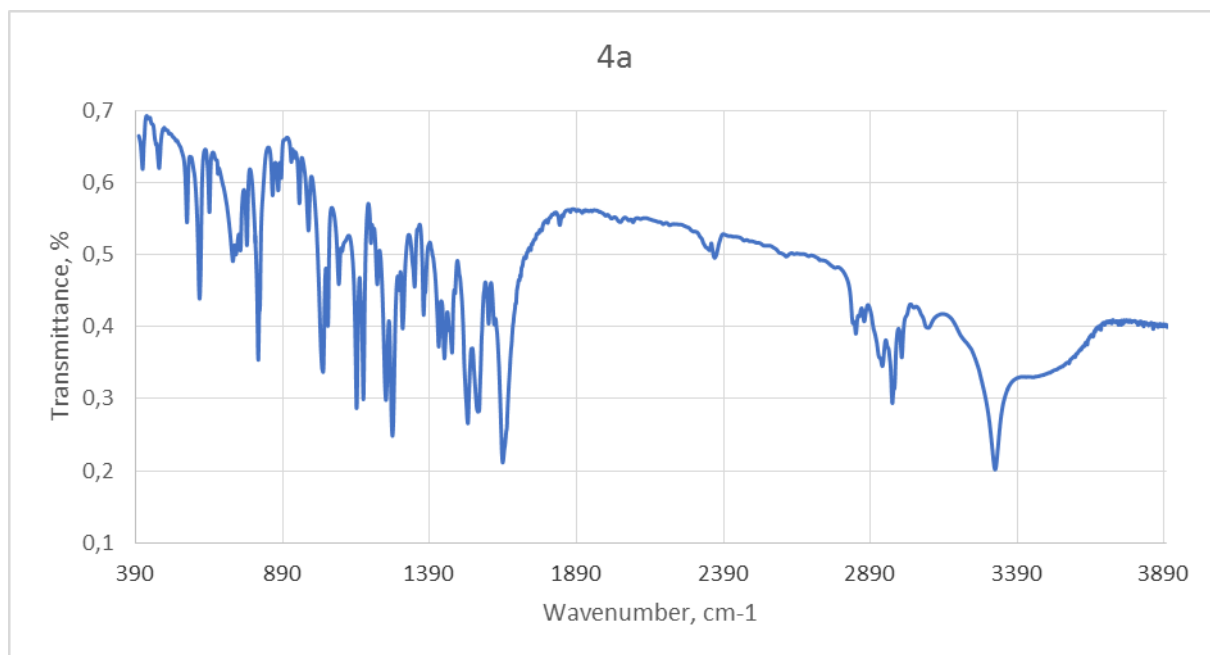


Figure S6

$^1\text{H}$ -NMR spectrum of compound **4b**

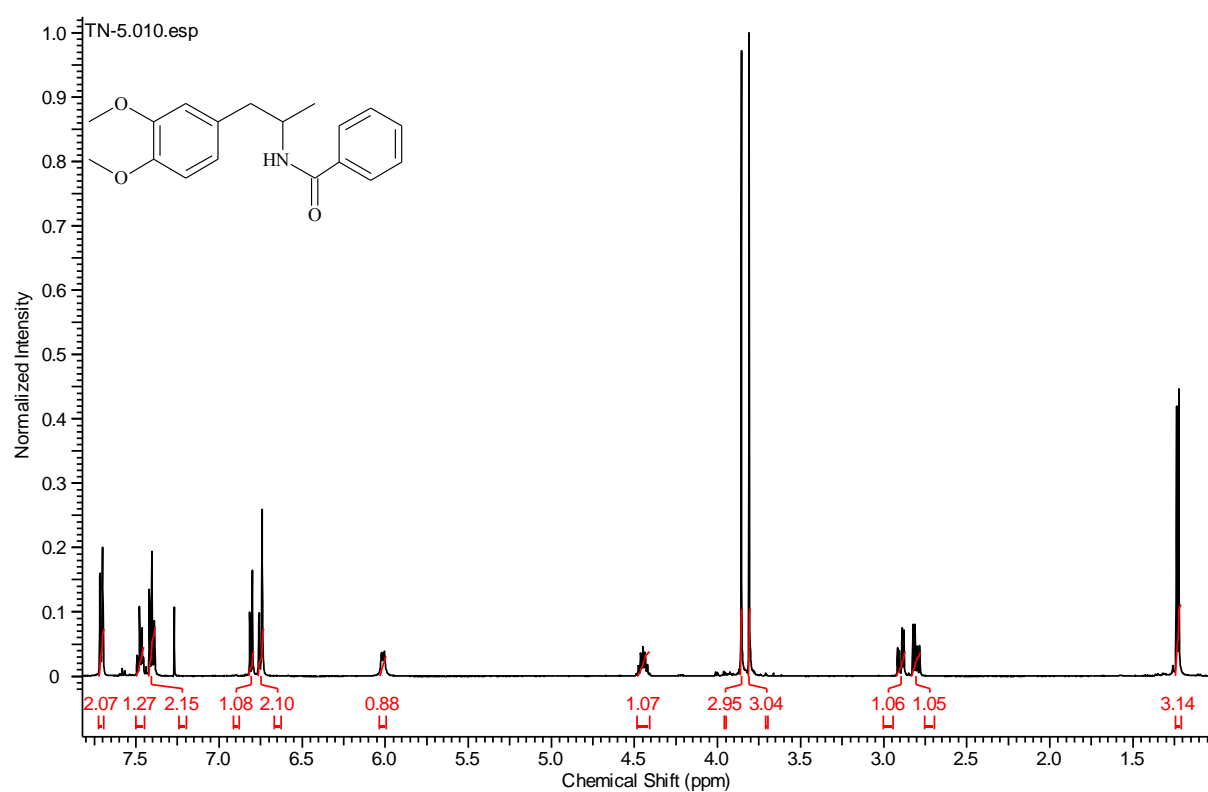


Figure S7

$^{13}\text{C}$ -NMR spectrum of compound **4b**

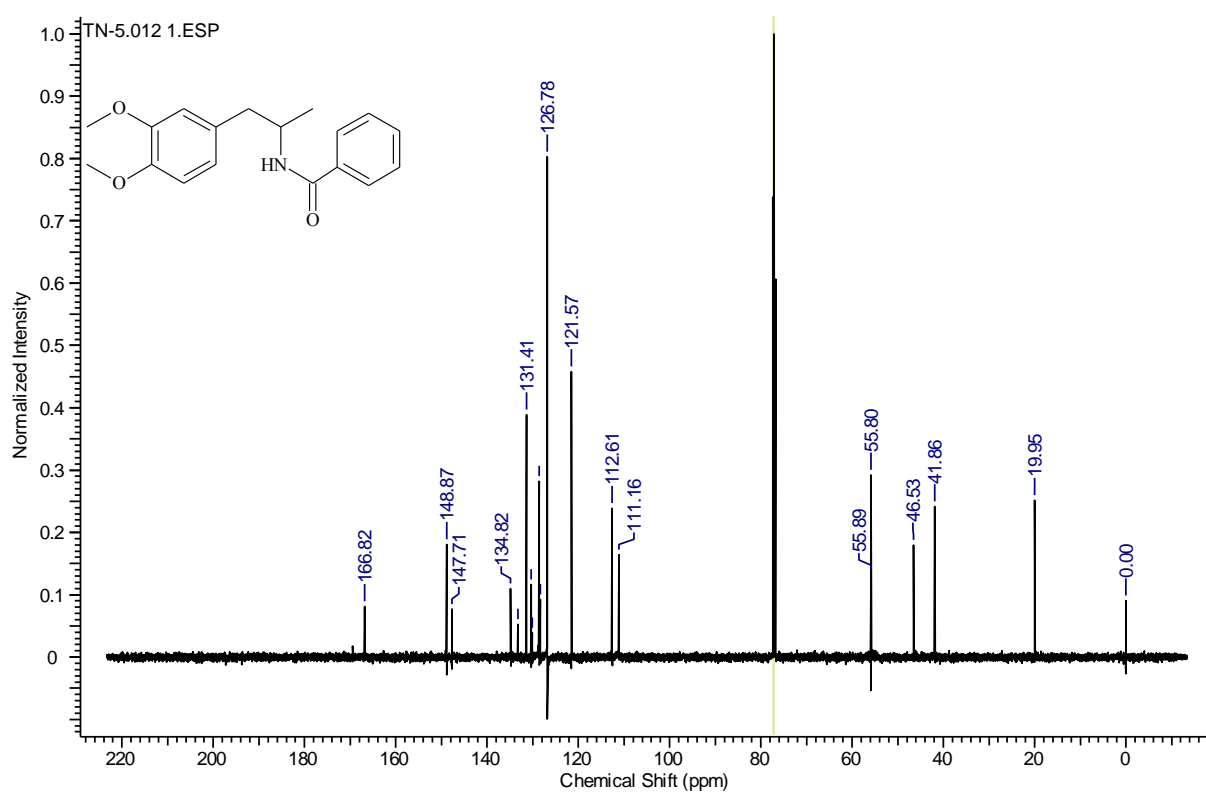




Figure S8

IR spectrum of compound **4b**

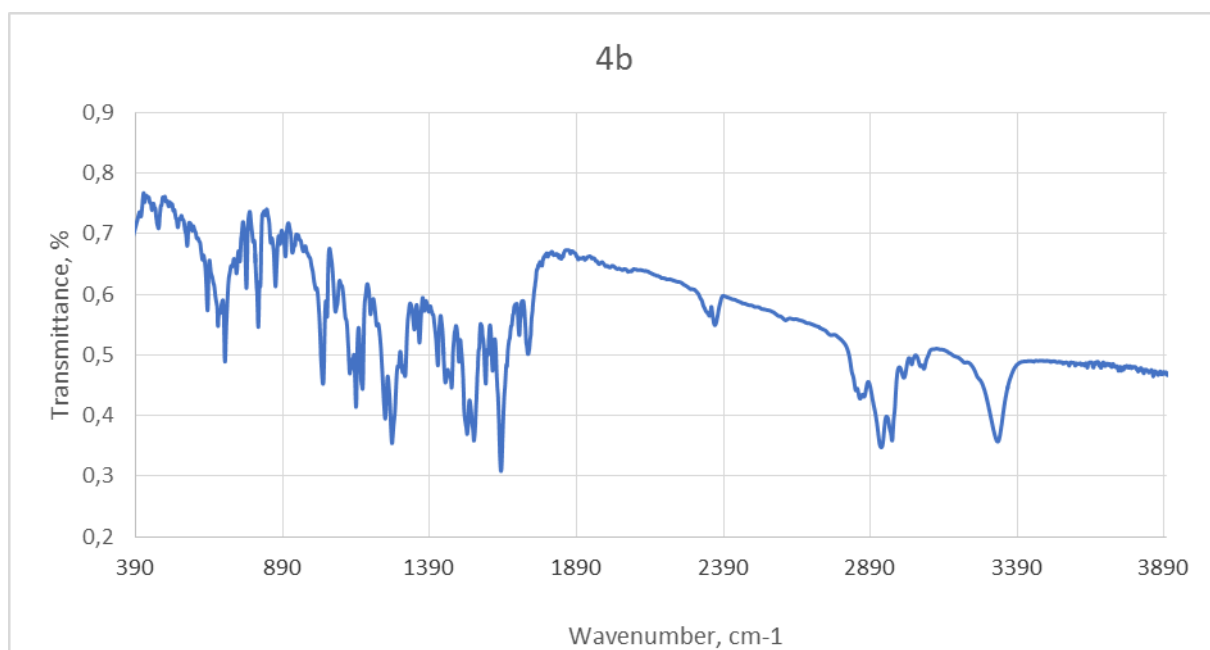


Figure S9

$^1\text{H}$ -NMR spectrum of compound **4c**

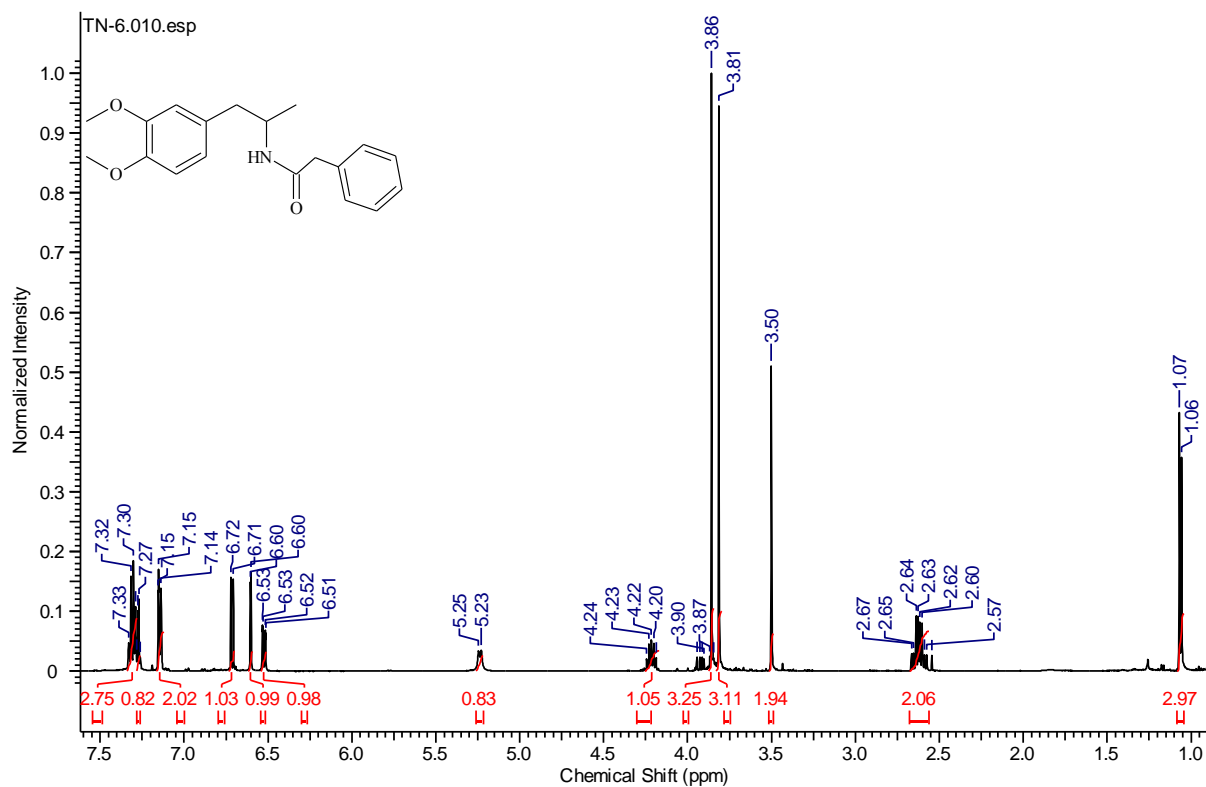


Figure S10

<sup>13</sup>C-NMR spectrum of compound **4c**

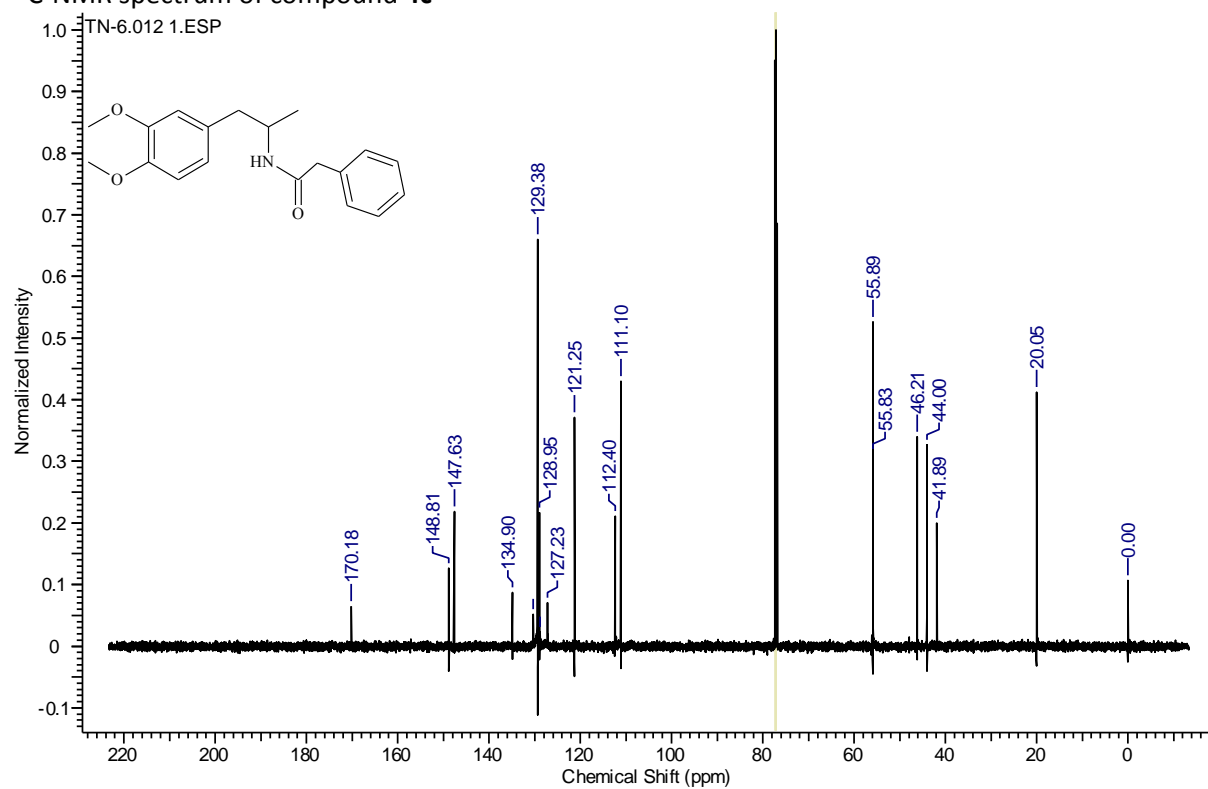


Figure S11

IR spectrum of compound **4c**

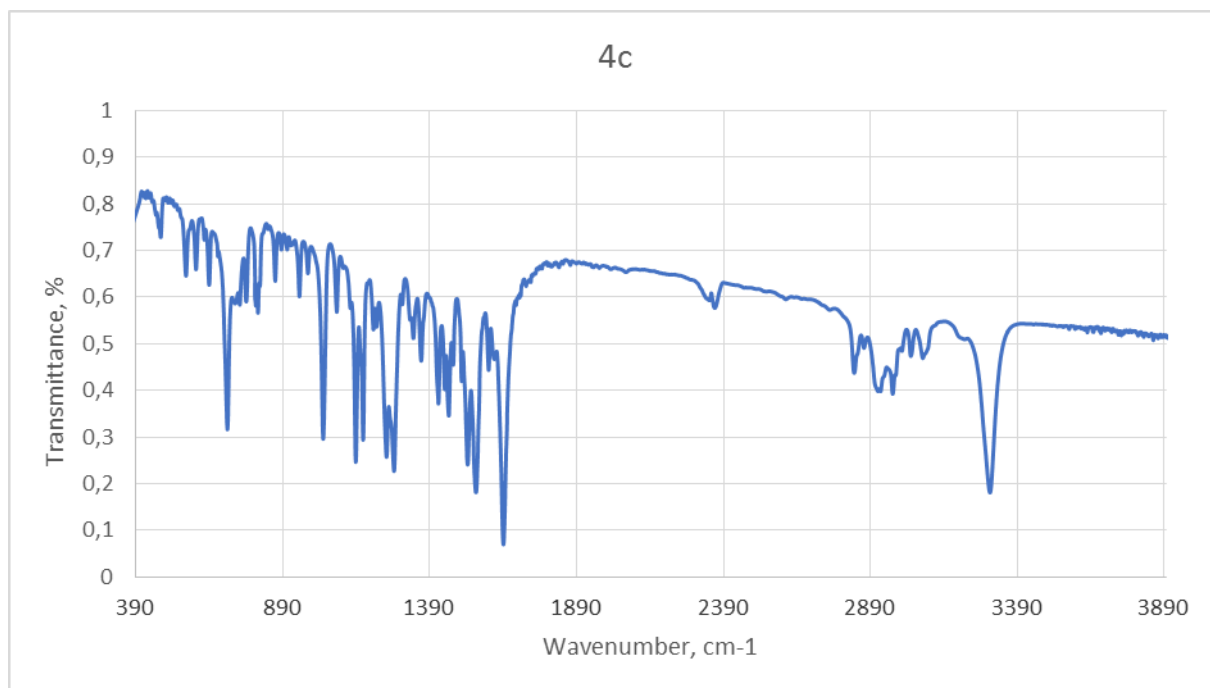


Figure S12

$^1\text{H}$ -NMR spectrum of compound **4d** (IQP)

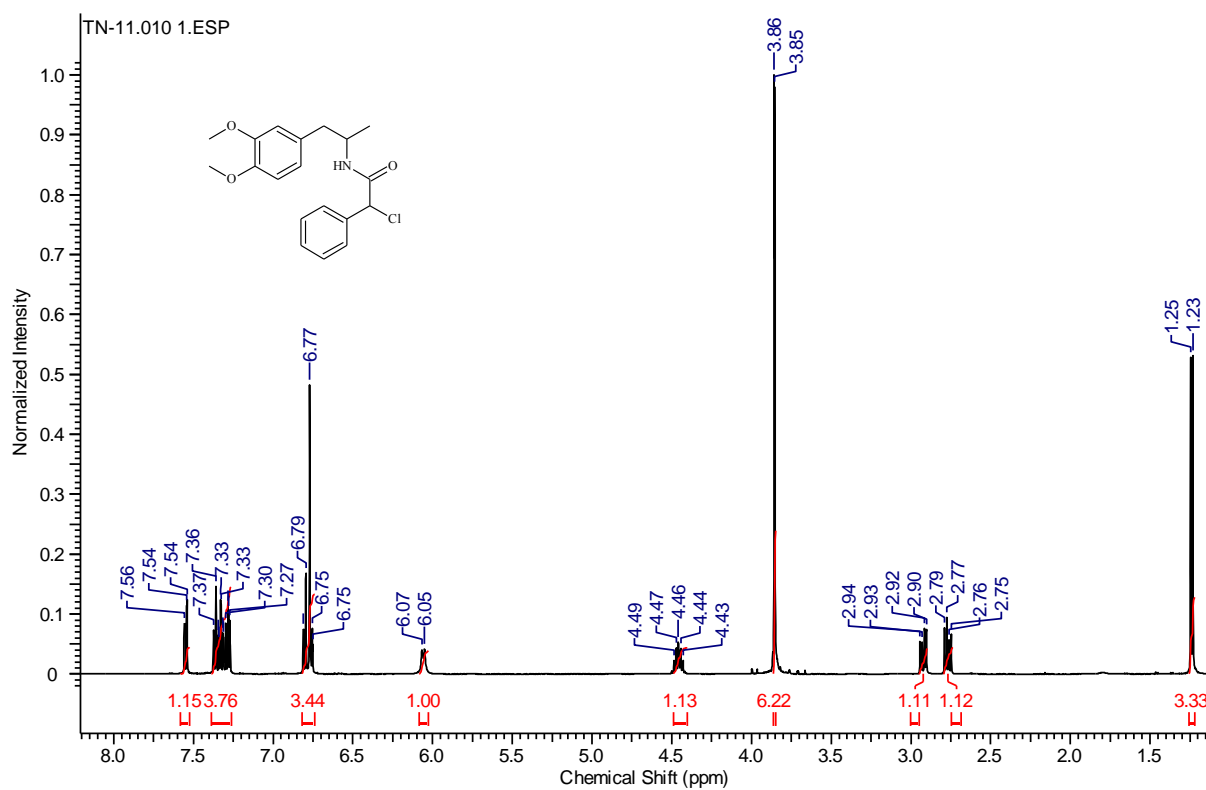


Figure S13

$^{13}\text{C}$ -NMR spectrum of compound **4d** (IQP)

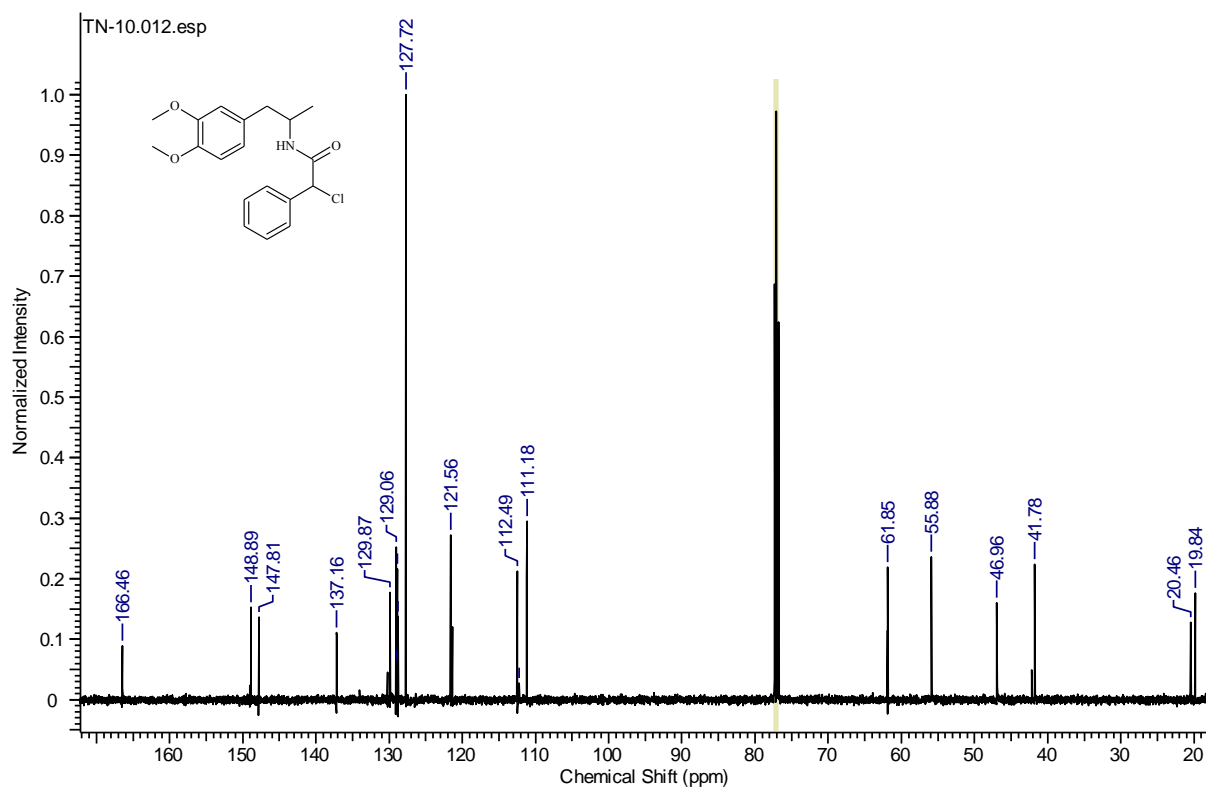


Figure S14

IR spectrum of compound **4d** (IQP)

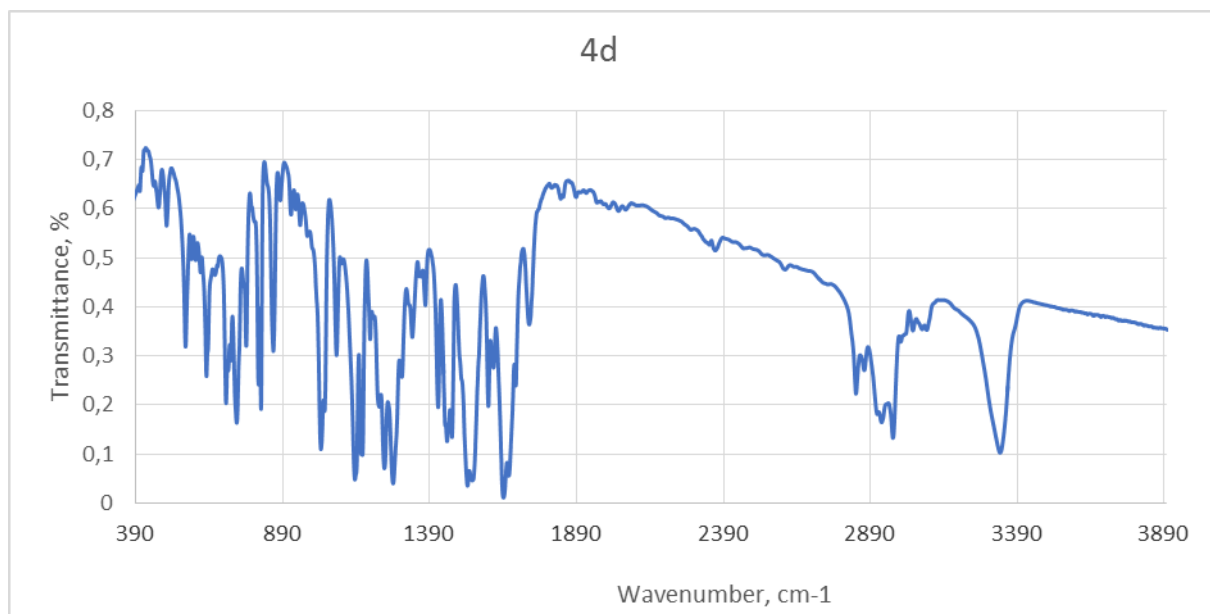


Figure S15

$^1\text{H}$ -NMR spectrum of compound **4e**

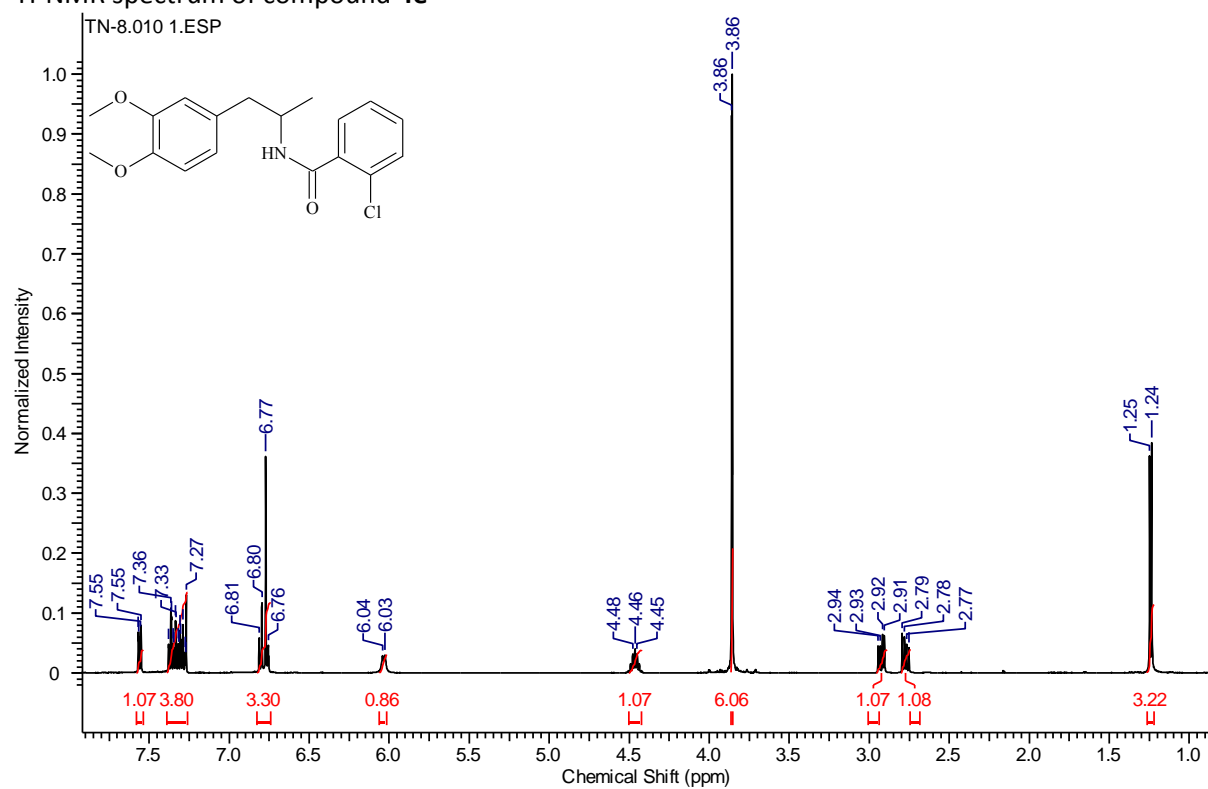




Figure S16

$^{13}\text{C}$ -NMR spectrum of compound **4e**

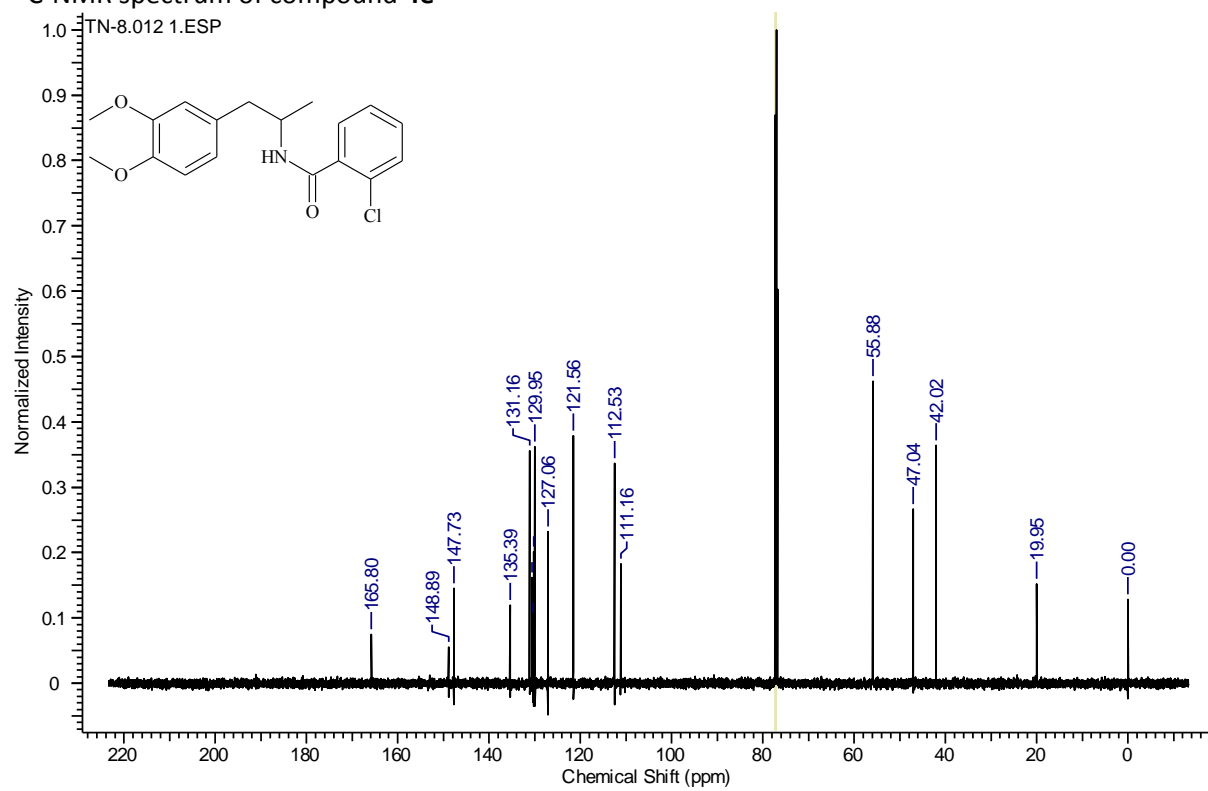


Figure S17

IR spectrum of compound **4e**

