

Supplementary material

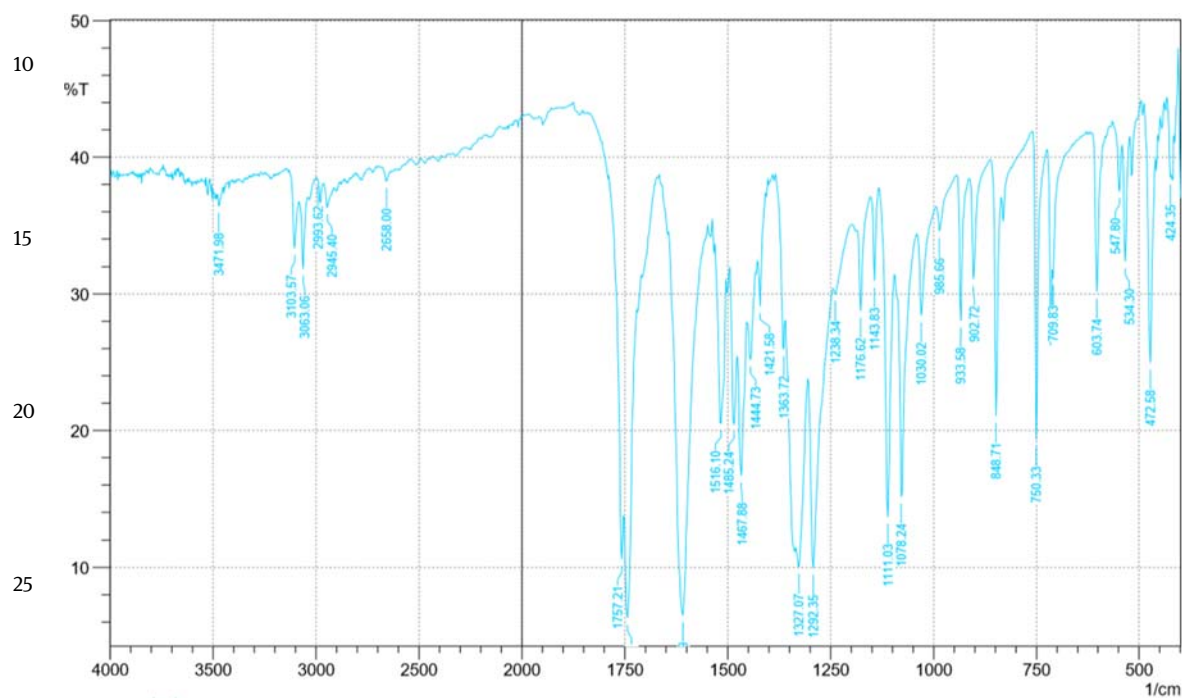


Figure S1: The IR spectrum of *N*-methyl-5-nitroisatin (3).

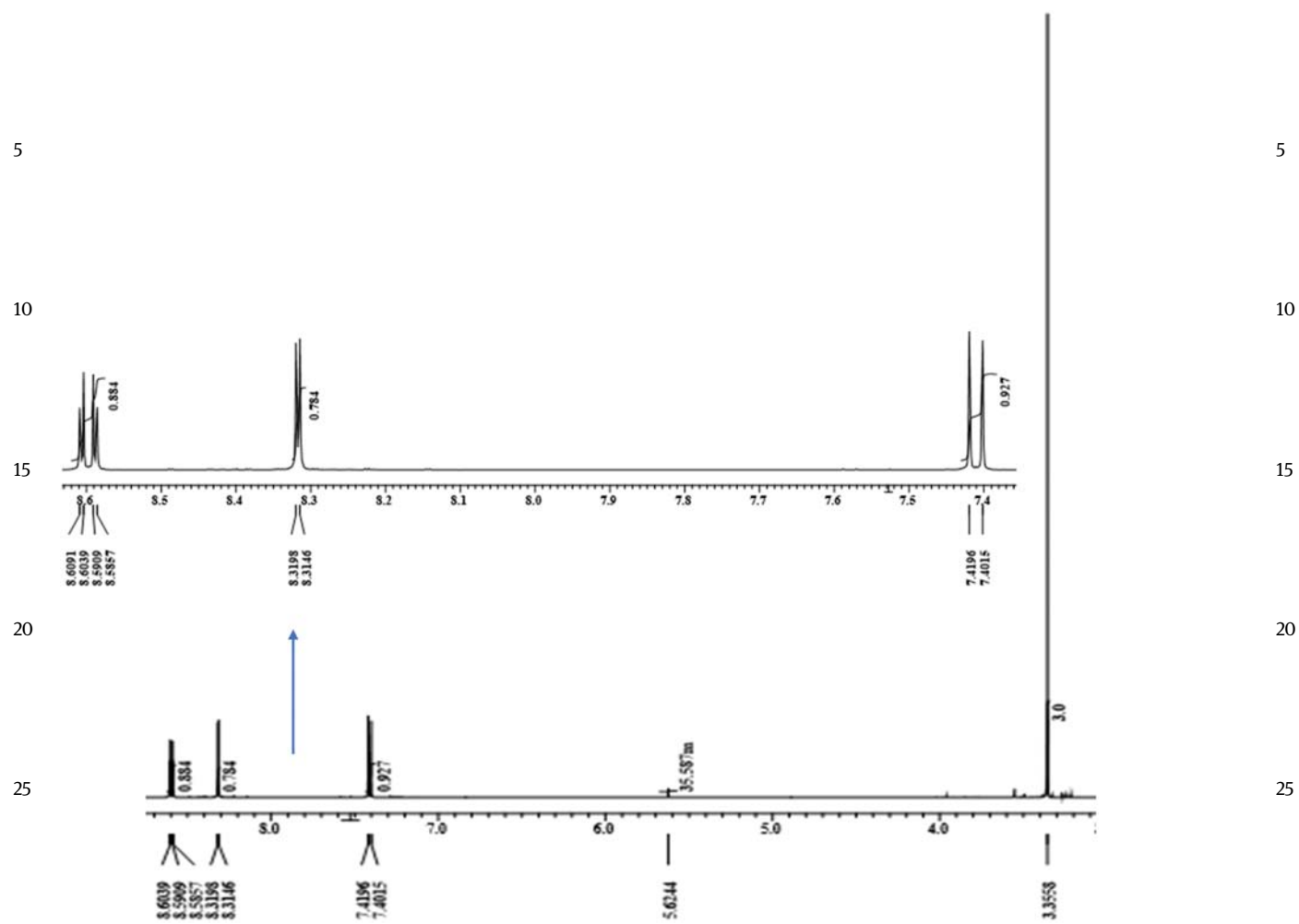


Figure S2: ^1H NMR spectrum of *N*-methyl-5-nitroisatin (**3**).

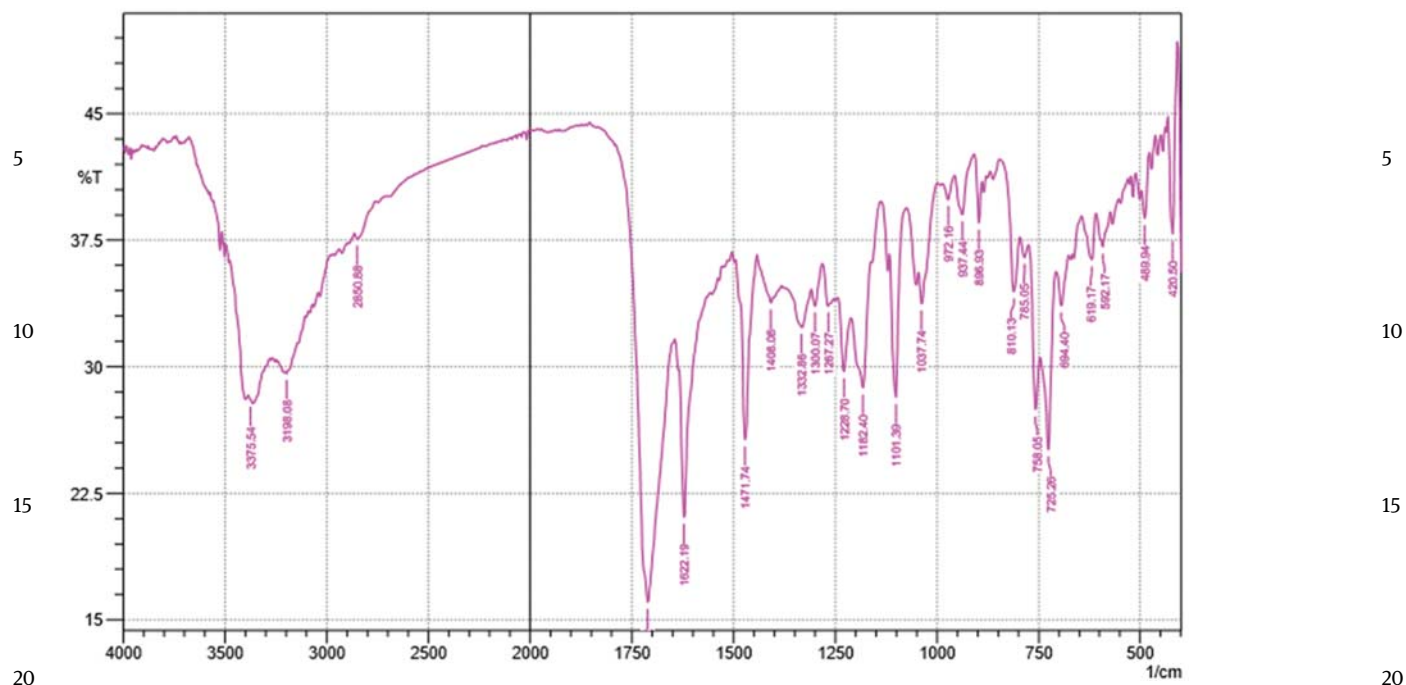


Figure S3: The IR spectral of 3-hydroxy-3-(1H-pyrrol-2-yl)indolin-2-one (5).

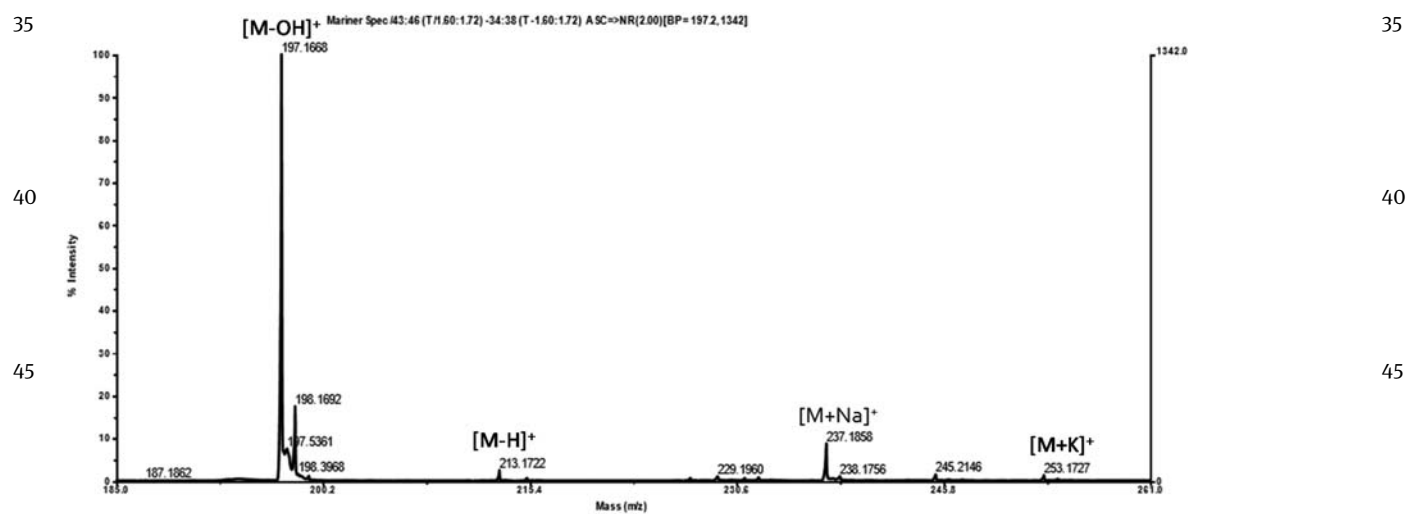


Figure S4: The mass spectrum of 3-hydroxy-3-(1H-pyrrol-2-yl)indolin-2-one (5).

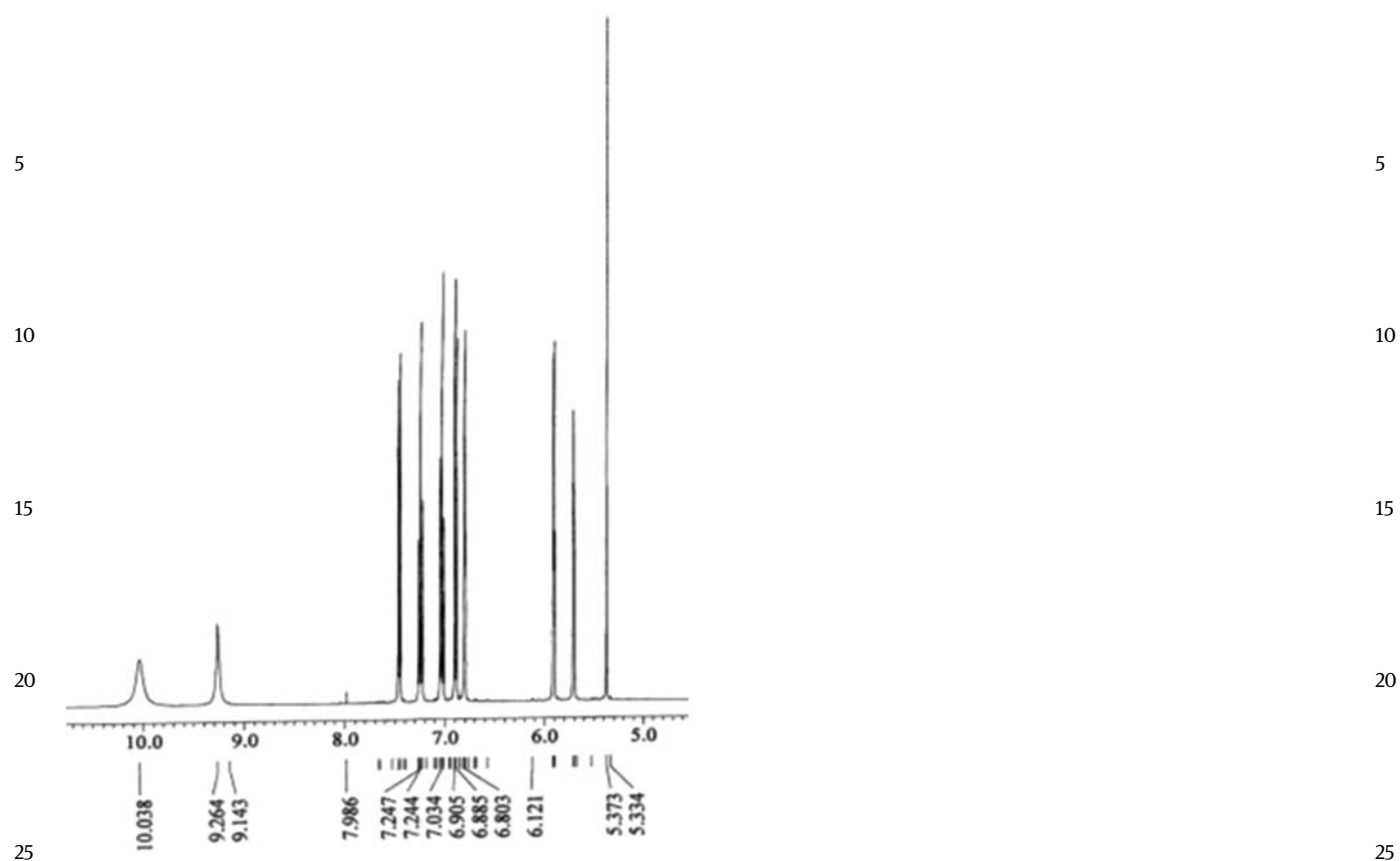


Figure S5: The ^1H NMR spectrum of 3-hydroxy-3-(1H-pyrrol-2-yl)indolin-2-one (5).

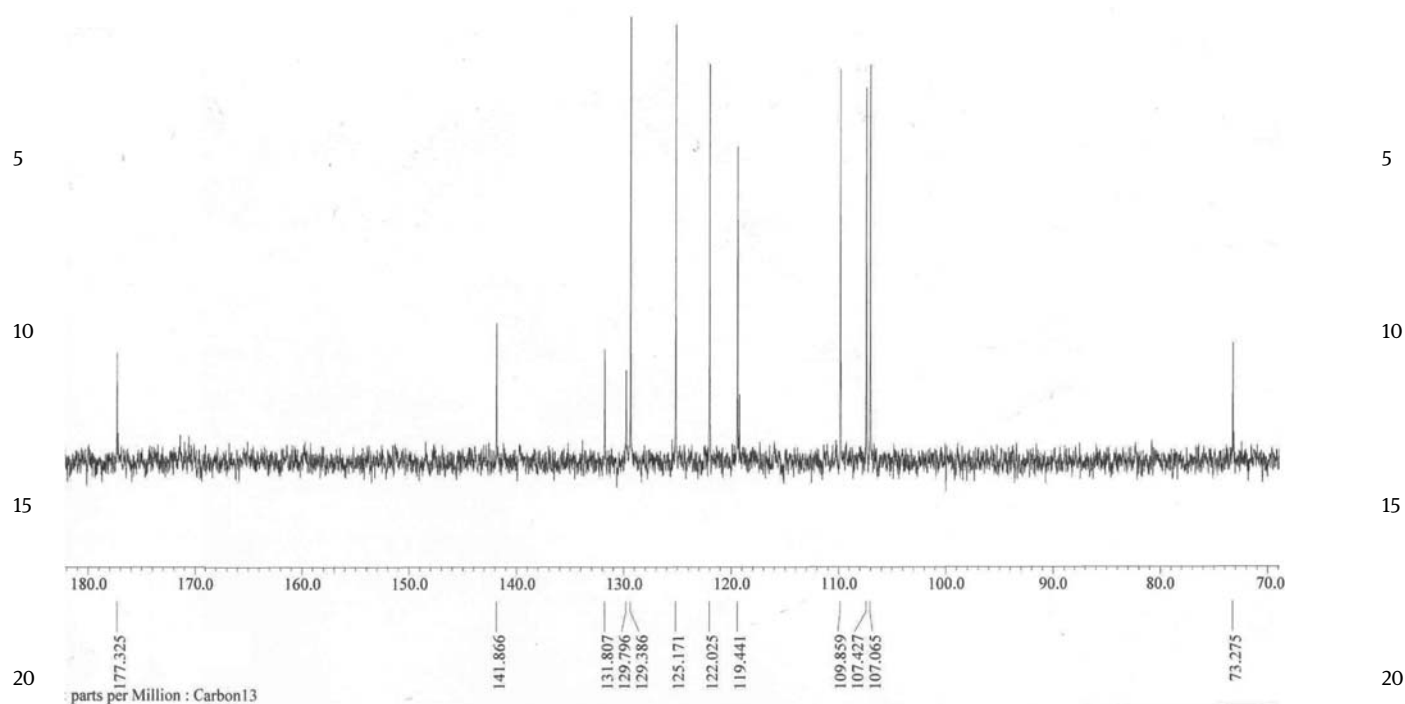


Figure S6: The ^{13}C NMR spectrum of 3-hydroxy-3-(1H-pyrrol-2-yl)indolin-2-one (5).

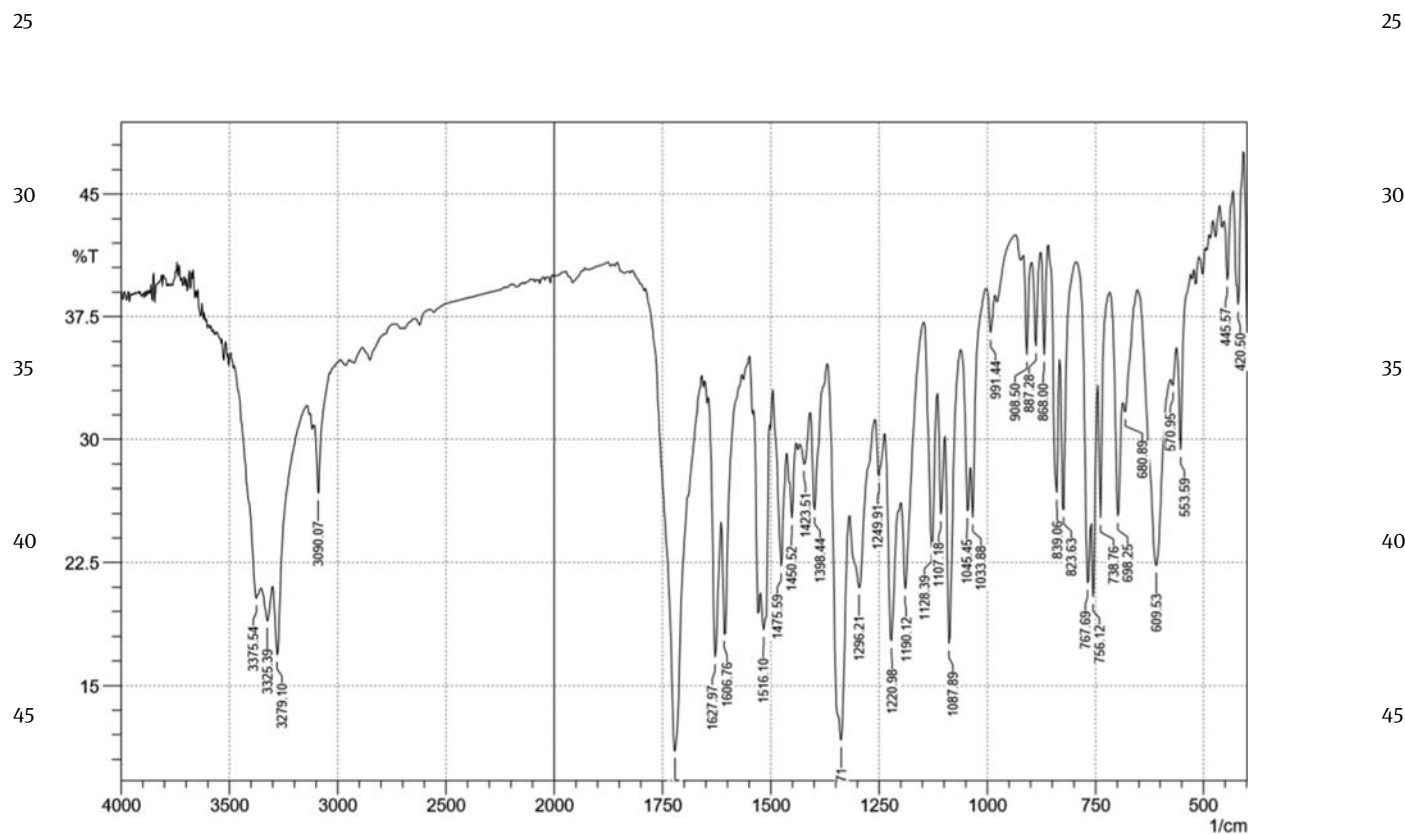


Figure S7: The IR spectrum of 3-hydroxy-5-nitro-3-(1H-pyrrol-2-yl)indolin-2-one (6).

Single Mass Analysis

Tolerance = 10.0 mDa / DBE: min = -1.5, max = 50.0

Selected filters: Carbon;

Monoisotopic Mass, Even Electron Ions

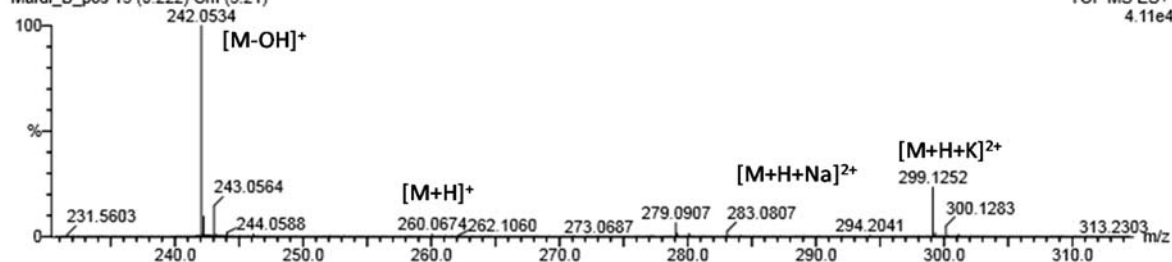
346 formula(e) evaluated with 12 results within limits (up to 1 best isotopic matches for each mass)

Elements Used:

C: 0-500 H: 0-1000 N: 0-20 O: 0-20

standar

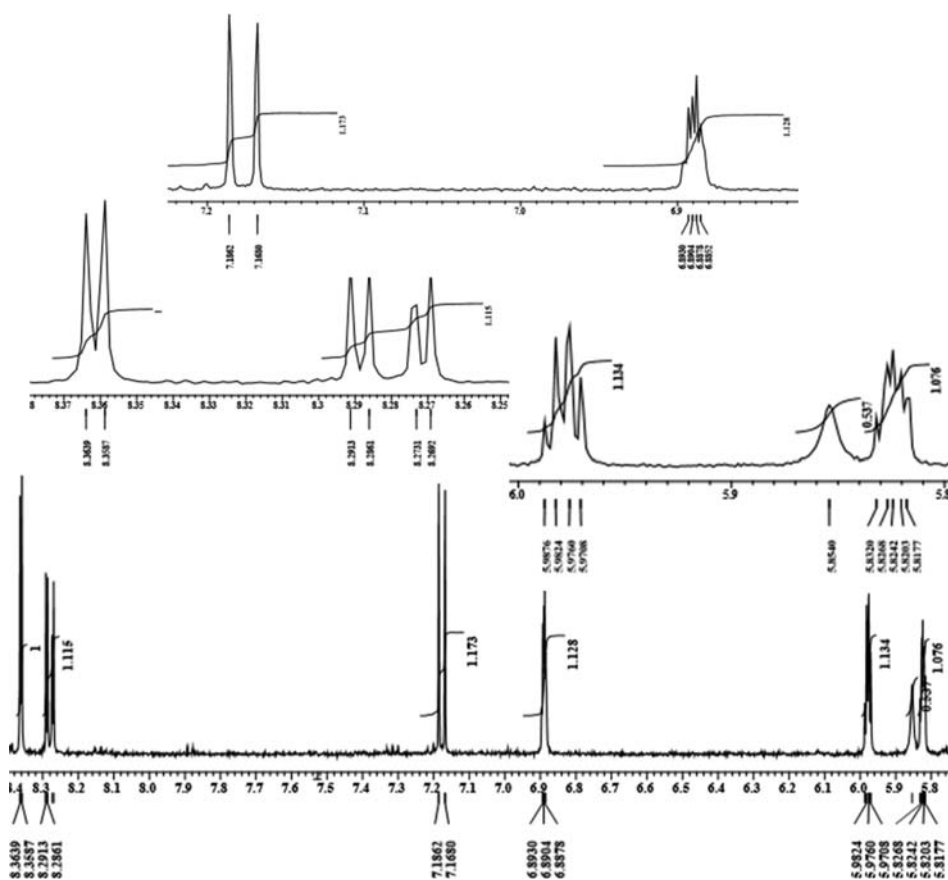
Mardi_B_pos 13 (0.222) Cm (3:21)

TOF MS ES+
4.11e4

Minimum:

Maximum:

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
242.0534	242.0566	-3.2	-13.2	10.5	27.1	C12 H8 N3 O3

Figure S8: The mass spectrum of 3-hydroxy-5-nitro-3-(1*H*-pyrrol-2-yl)indolin-2-one (**6**).**Figure S9:** The ^1H NMR spectrum of 3-hydroxy-5-nitro-3-(1*H*-pyrrol-2-yl)indolin-2-one (**6**).

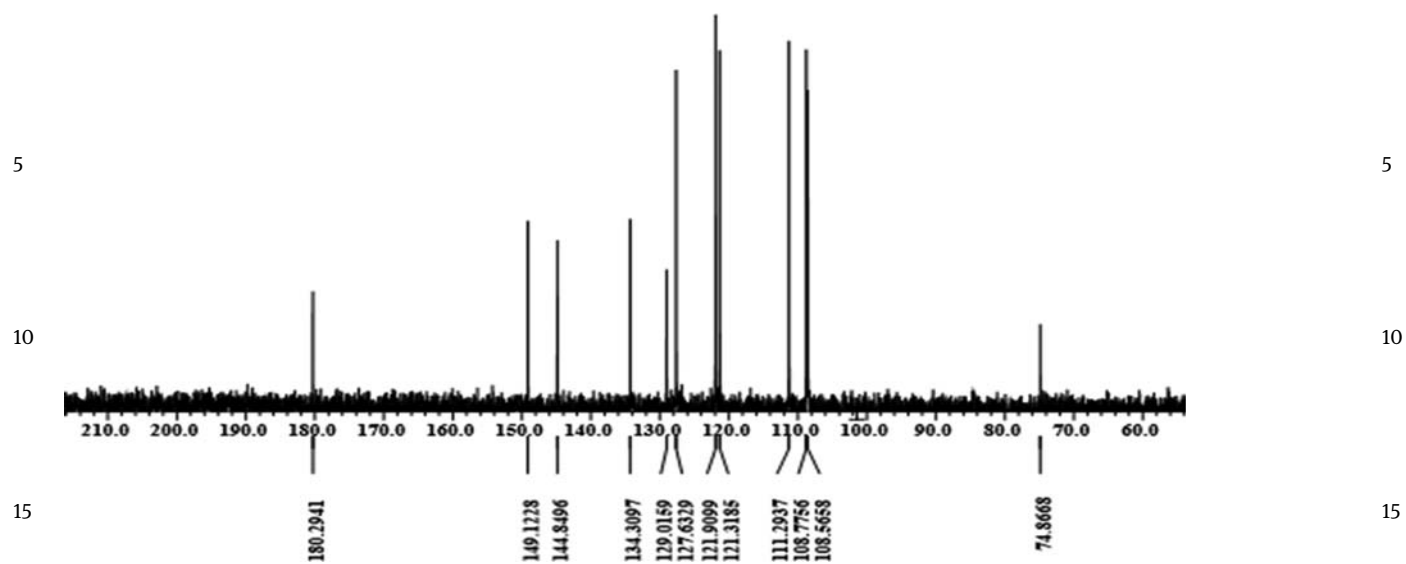


Figure S10: The ^{13}C NMR spectrum of 3-hydroxy-5-nitro-3-(1H-pyrrol-2-yl)indolin-2-one (6).

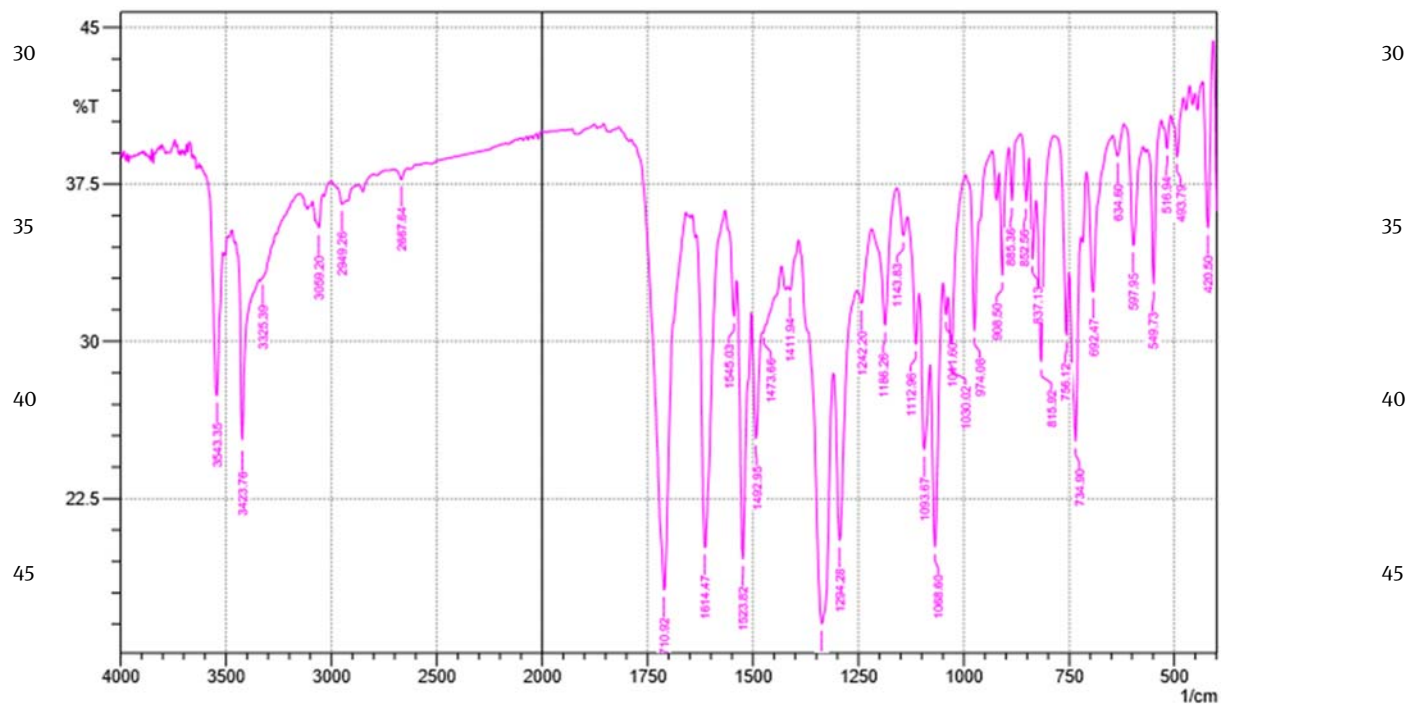


Figure S11: The IR spectrum of 3-hydroxy-N-methyl-5-nitro-3-(1H-pyrrol-2-yl)indolin-2-one (7).

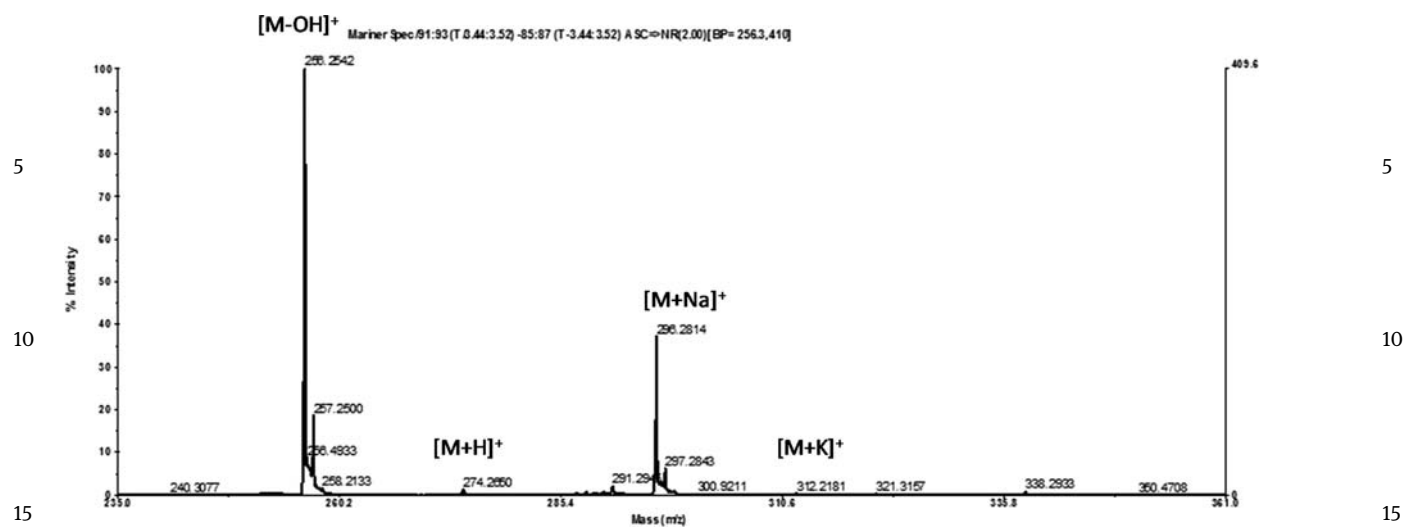


Figure S12: The mass spectrum of 3-hydroxy-*N*-methyl-5-nitro-3-(1*H*-pyrrol-2-yl)indolin-2-one (7).

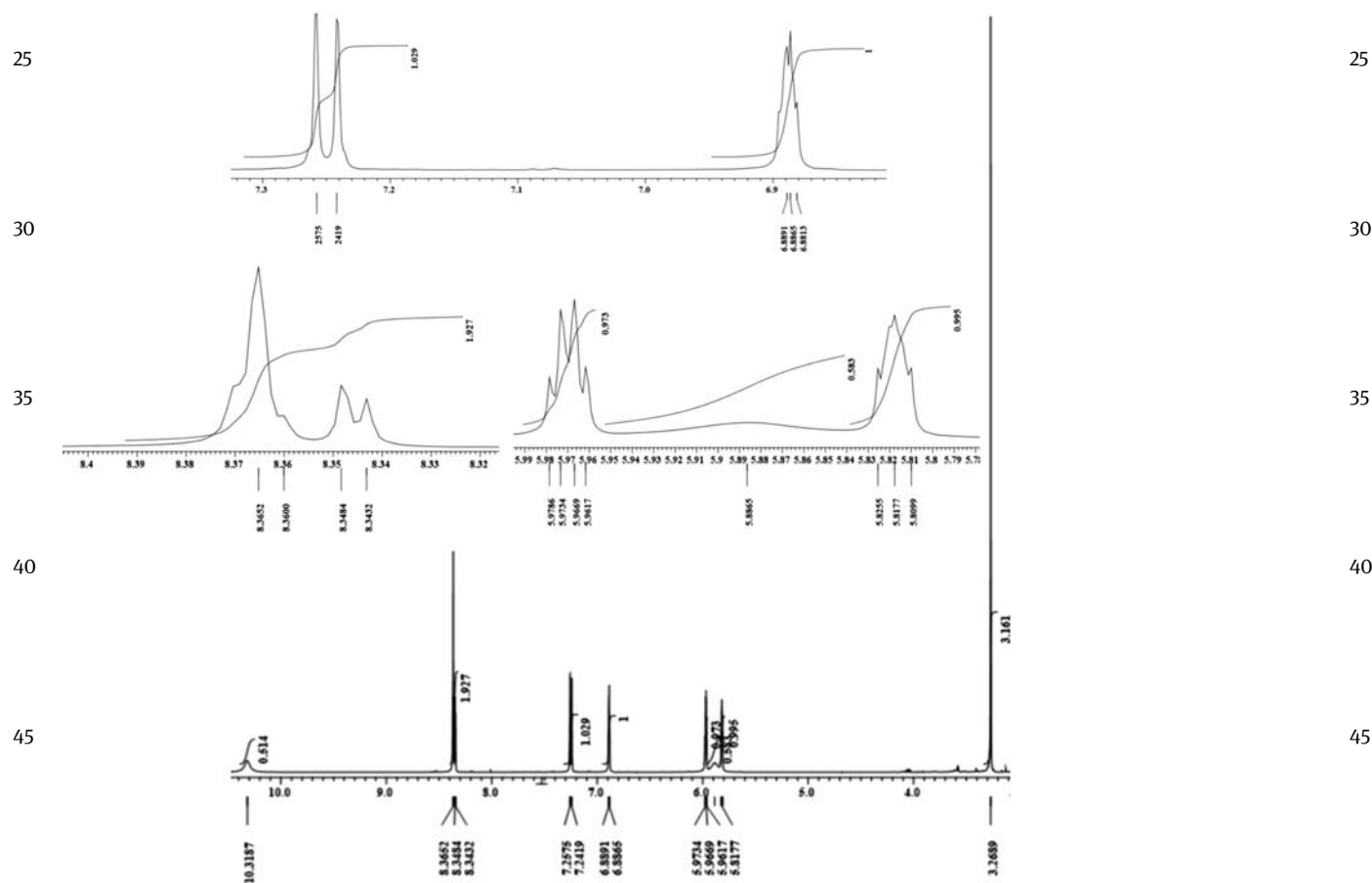


Figure S13: The ¹H NMR spectrum of 3-hydroxy-*N*-methyl-5-nitro-3-(1*H*-pyrrol-2-yl)indolin-2-one (7).

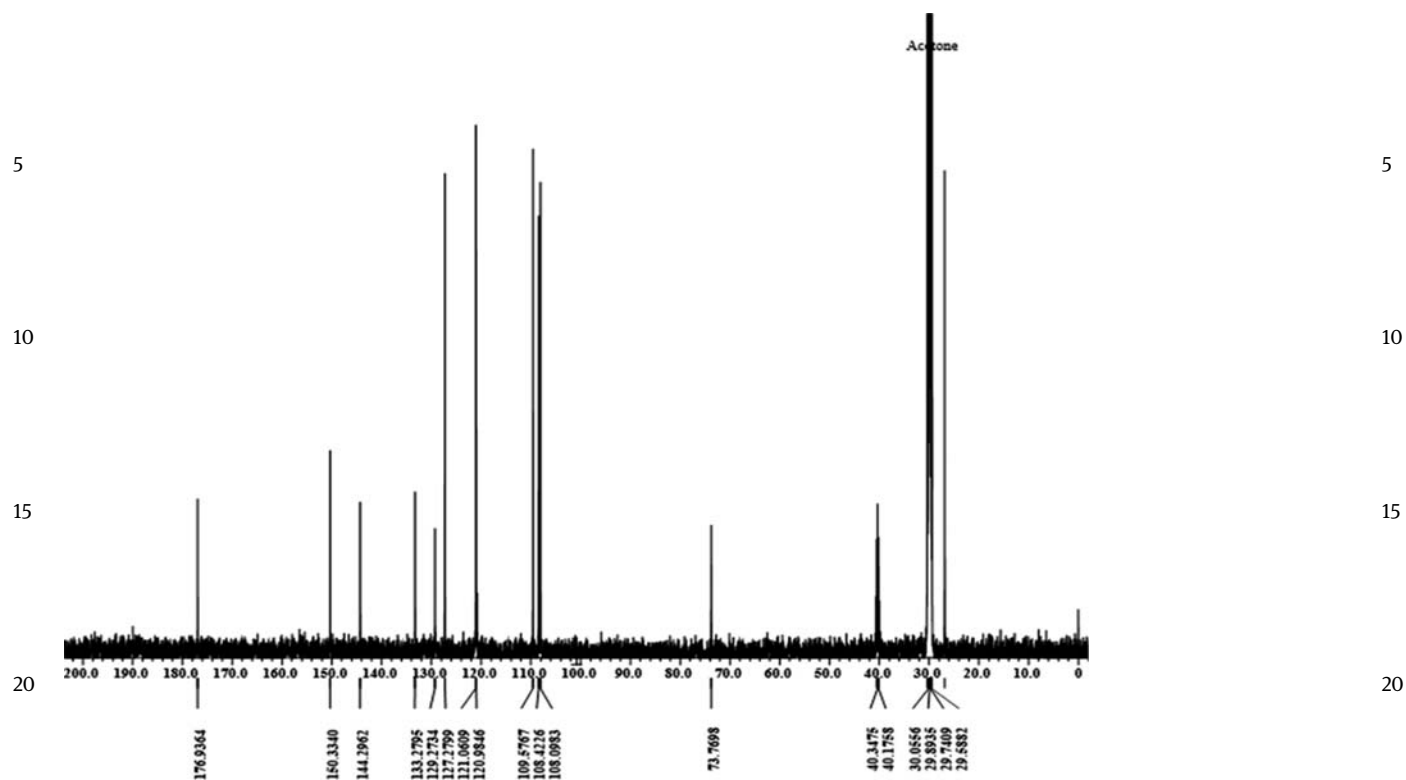


Figure S14: The ¹³C NMR spectrum of 3-hydroxy-N-methyl-5-nitro-3-(1H-pyrrol-2-yl)indolin-2-one (7).

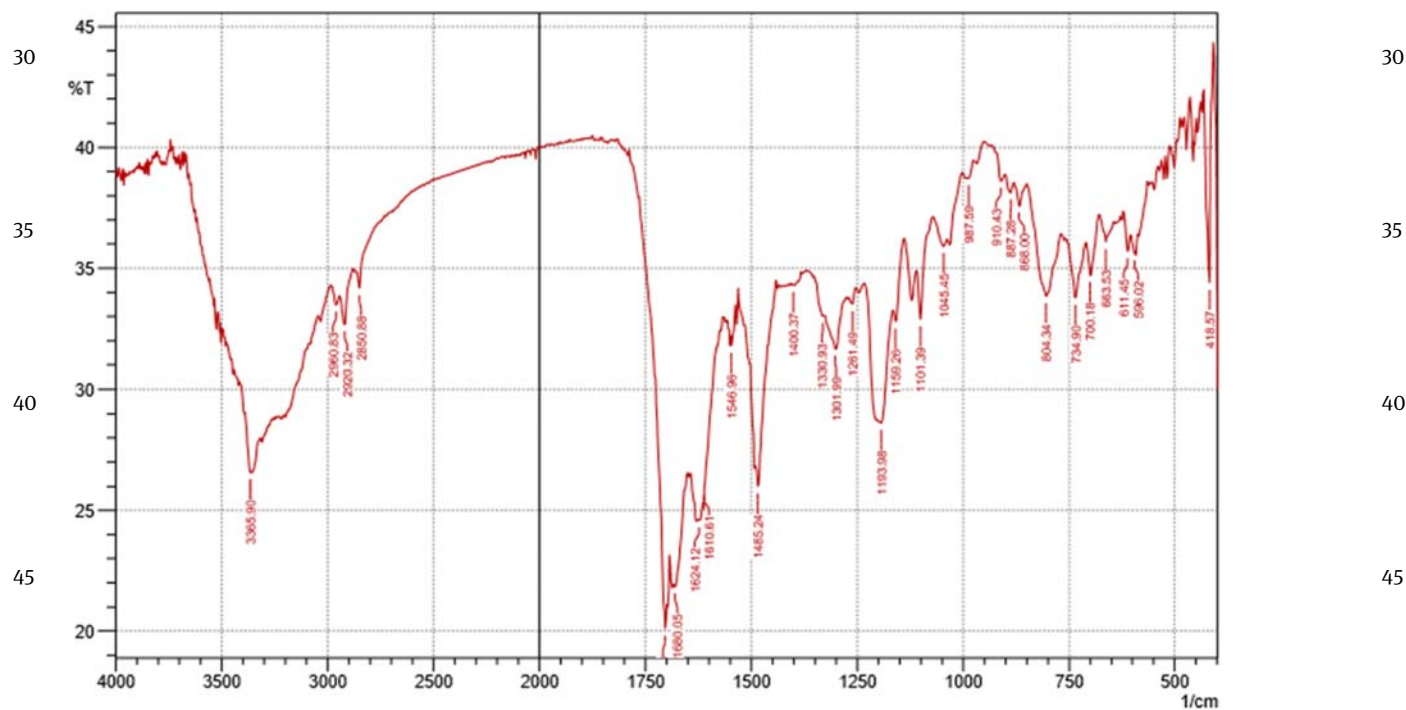


Figure S15: The IR spectrum of 5-amino-3-hydroxy-3-(1H-pyrro-2-yl)indolin-2-one (8).



Figure S16: The mass spectrum of 5-amino-3-hydroxy-3-(1*H*-pyrro-2-yl)indolin-2-one (**8**).



Figure S17: The ^1H NMR spectrum of 5-amino-3-hydroxy-3-(1*H*-pyrro-2-yl)indolin-2-one (**8**).

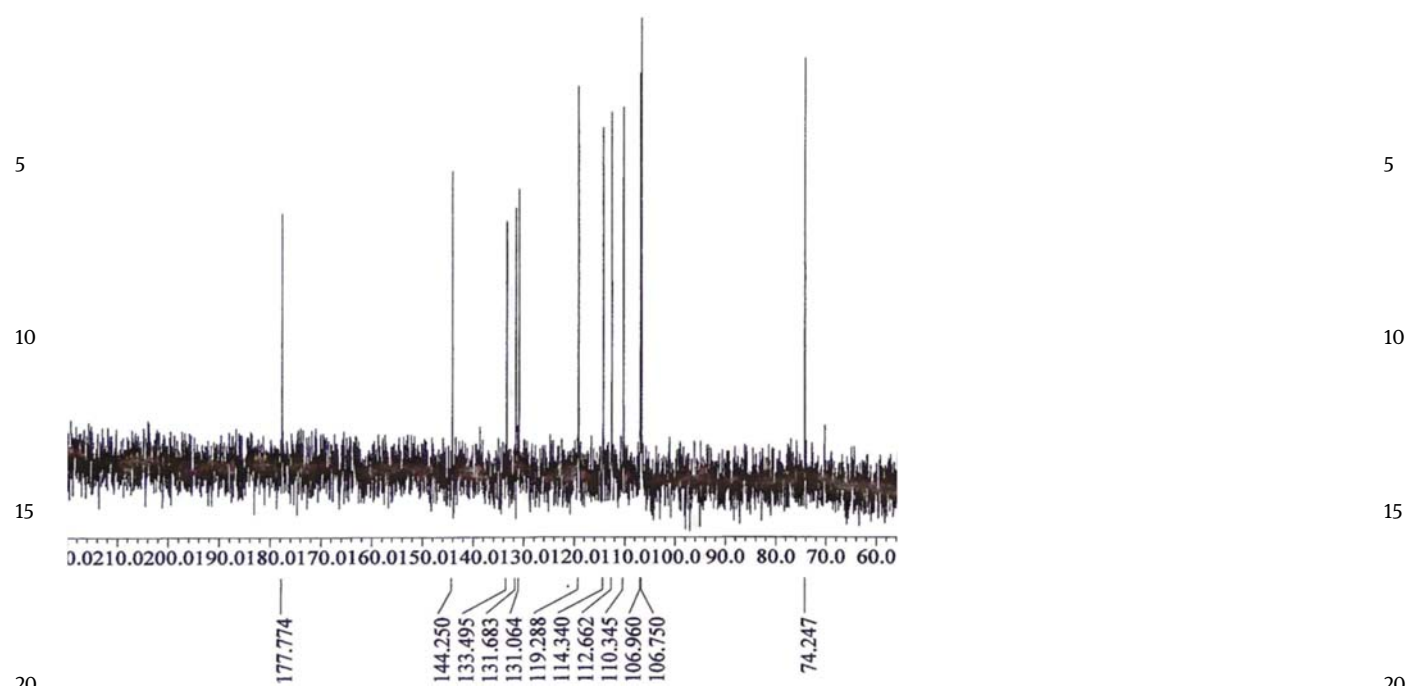


Figure S18: The ^{13}C NMR spectrum of 5-amino-3-hydroxy-3-(1H-pyrro-2-yl)indolin-2-one (8).