

Supporting Information

Solvent-free synthesis and antifungal activity of 3-alkenyl oxindole derivatives

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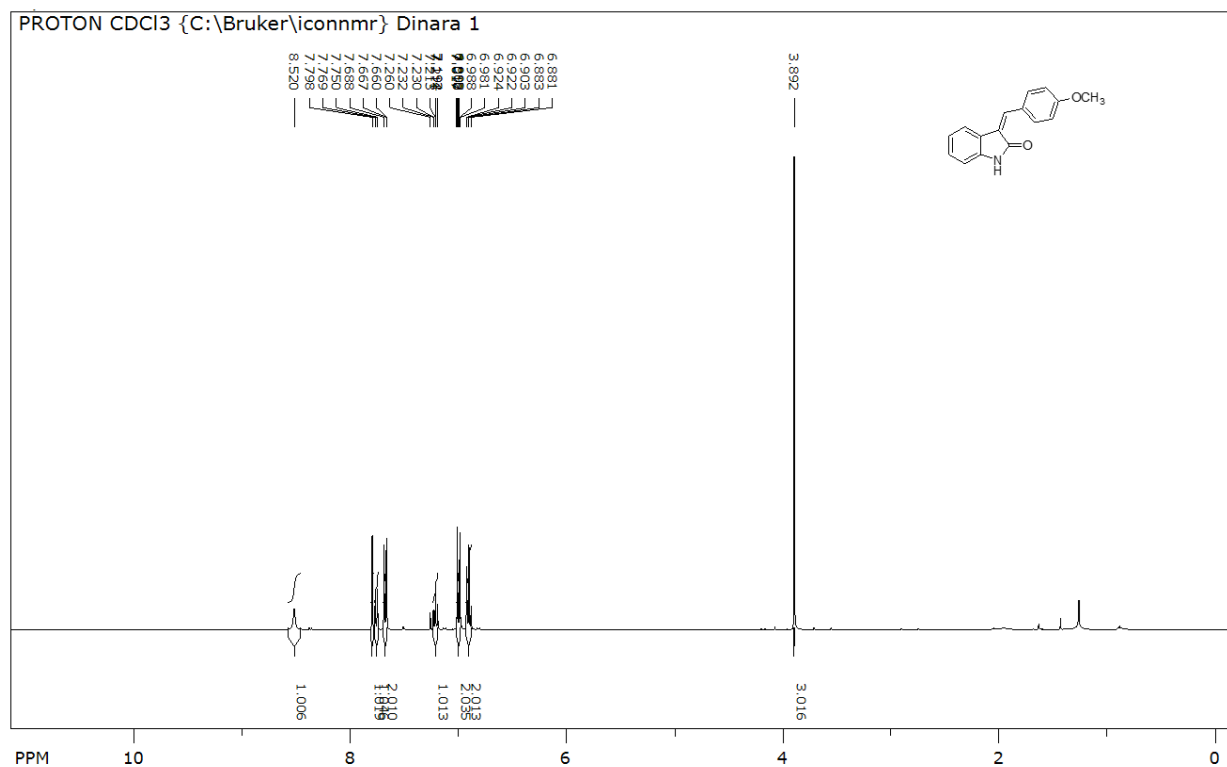


Fig. S1 ¹H NMR spectrum of compound 3a (CDCl₃, 400 MHz)

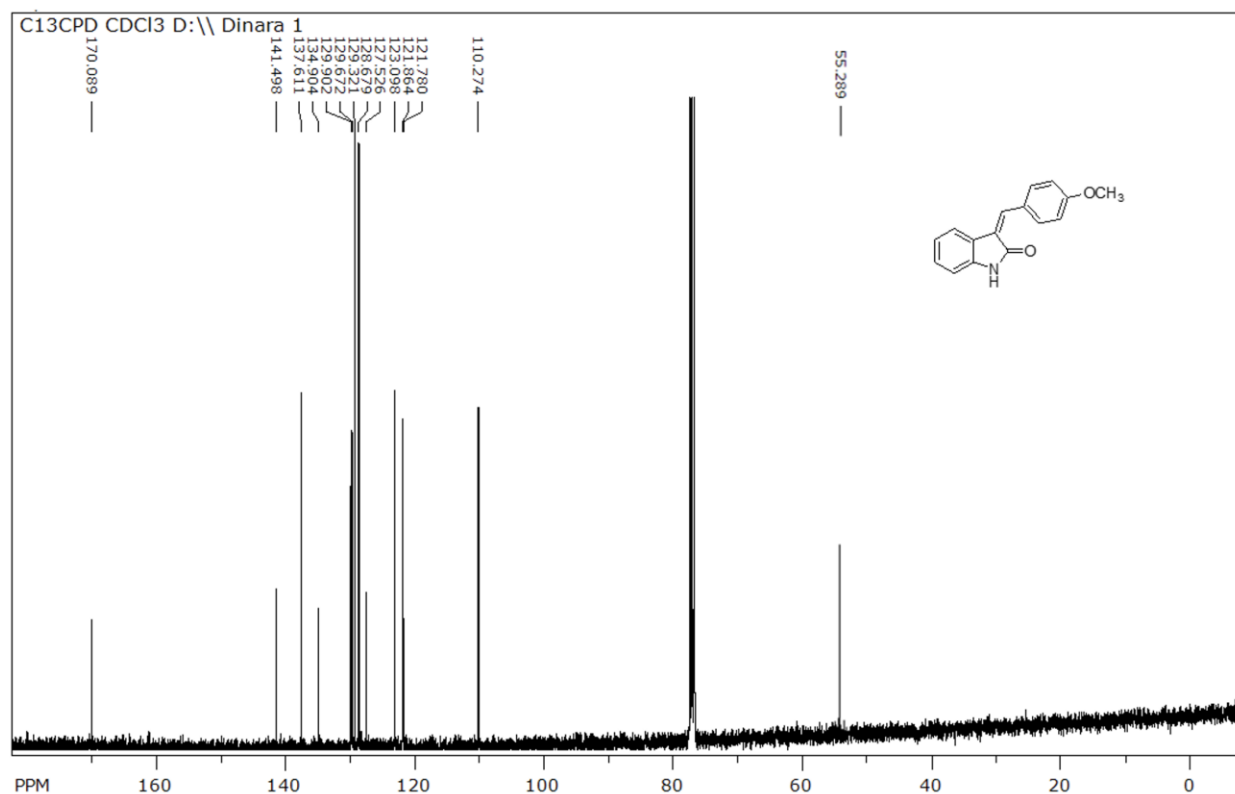


Fig. S2 ¹³C NMR spectrum of compound 3a (CDCl₃, 400 MHz)

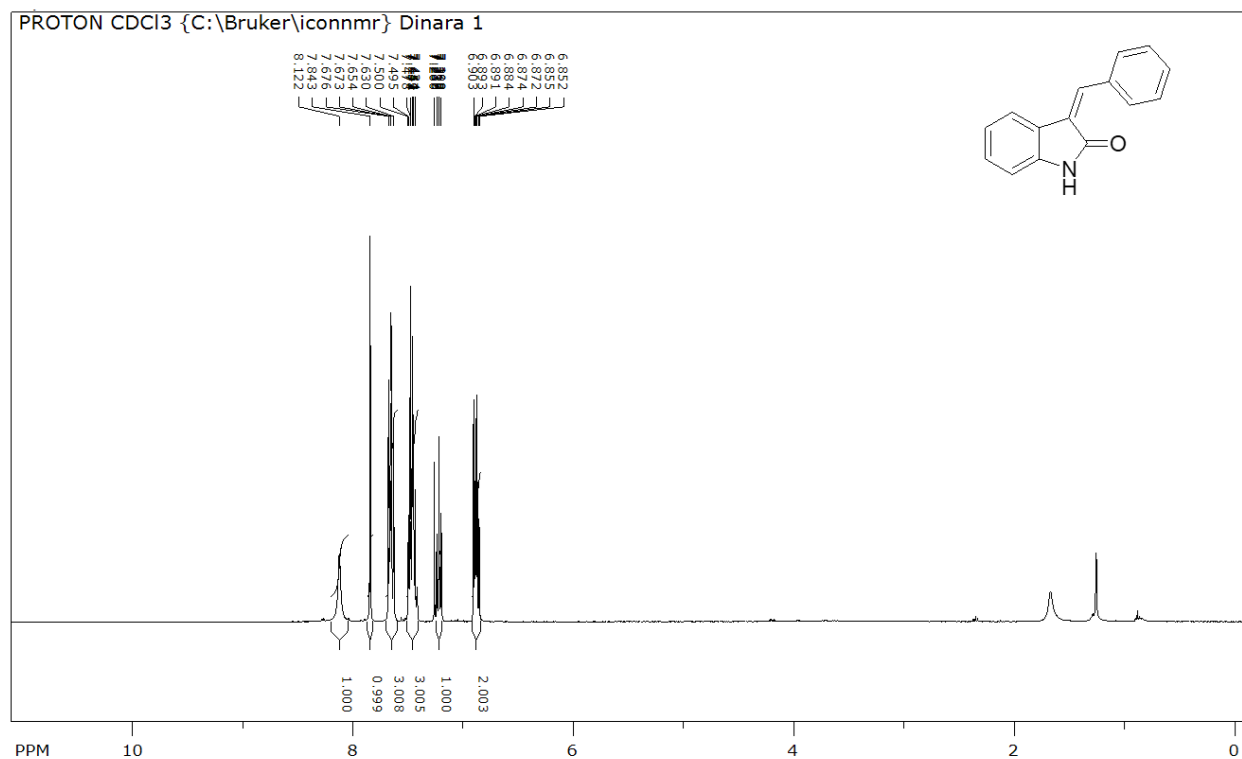


Fig. S3 ^1H NMR spectrum of compound 3b (CDCl_3 , 400 MHz)

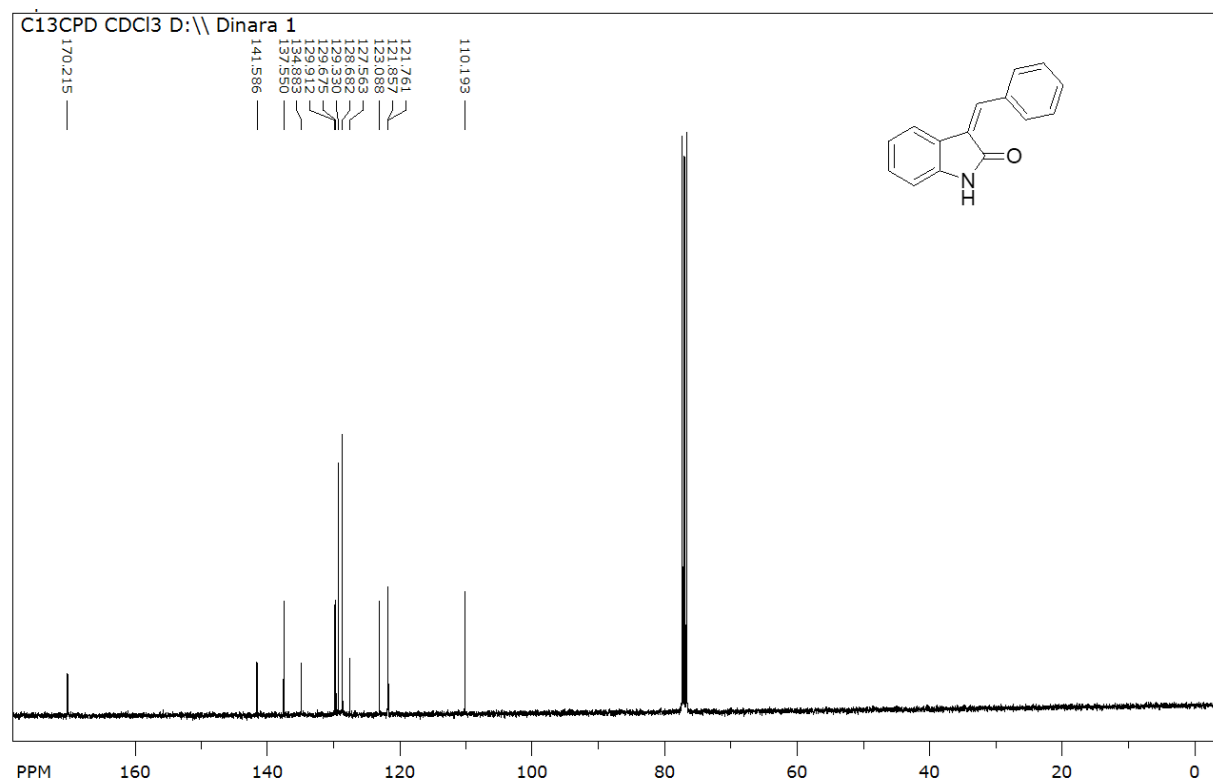


Fig. S4 ^{13}C NMR spectrum of compound 3b (CDCl_3 , 400 MHz)

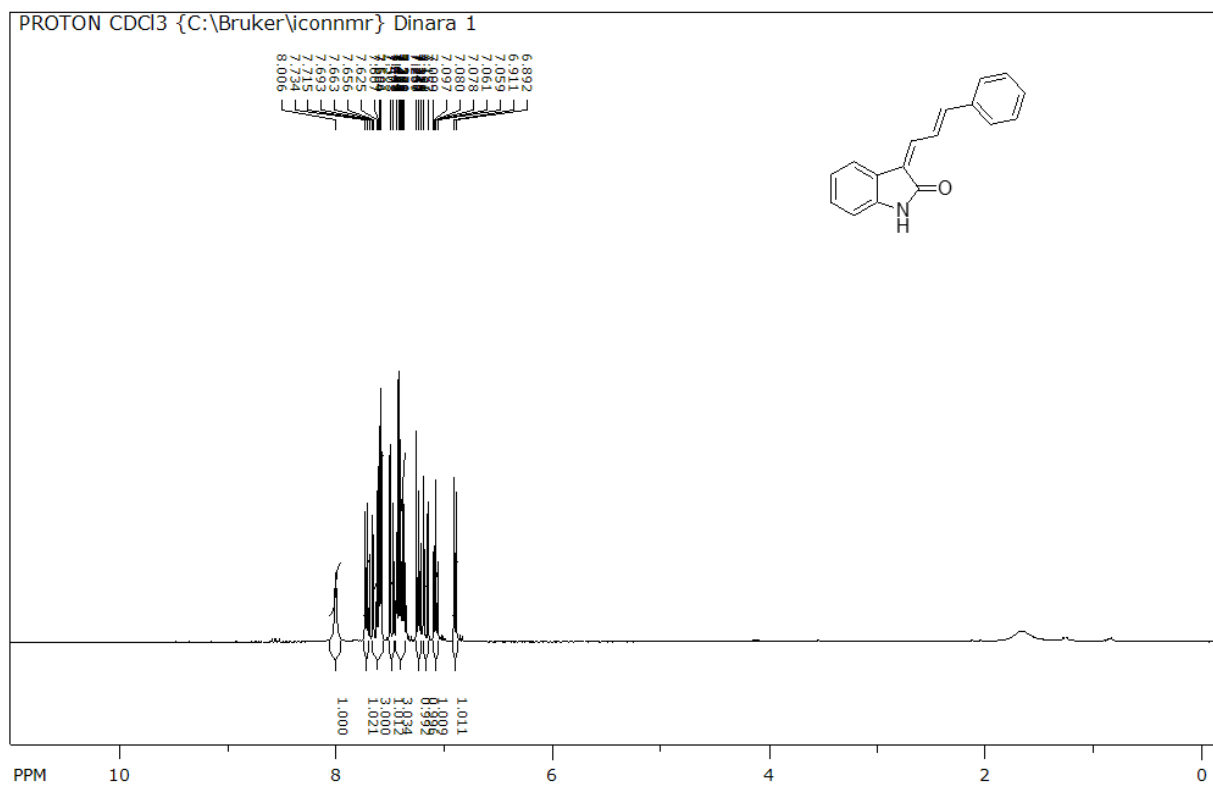


Fig. S5 ¹H NMR spectrum of compound 3c (CDCl₃, 400 MHz)

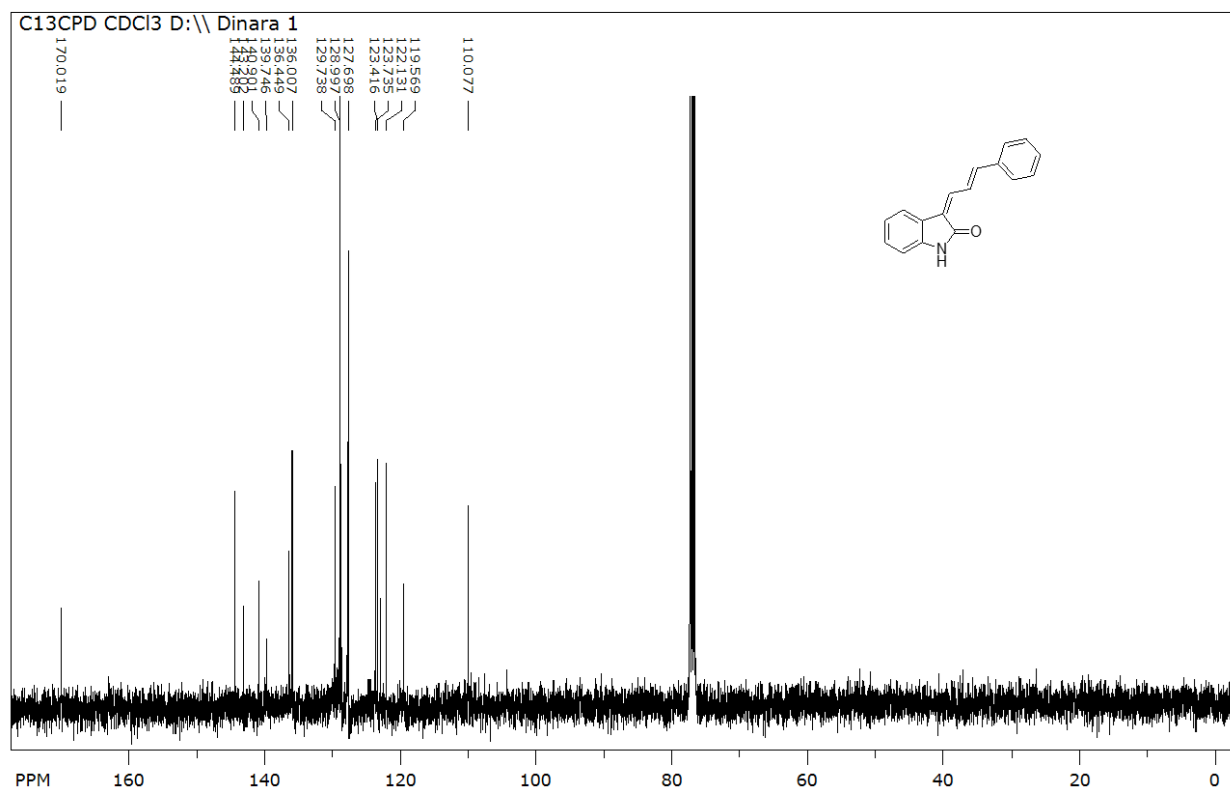


Fig. S6 ¹³C NMR spectrum of compound 3c (CDCl₃, 400 MHz)

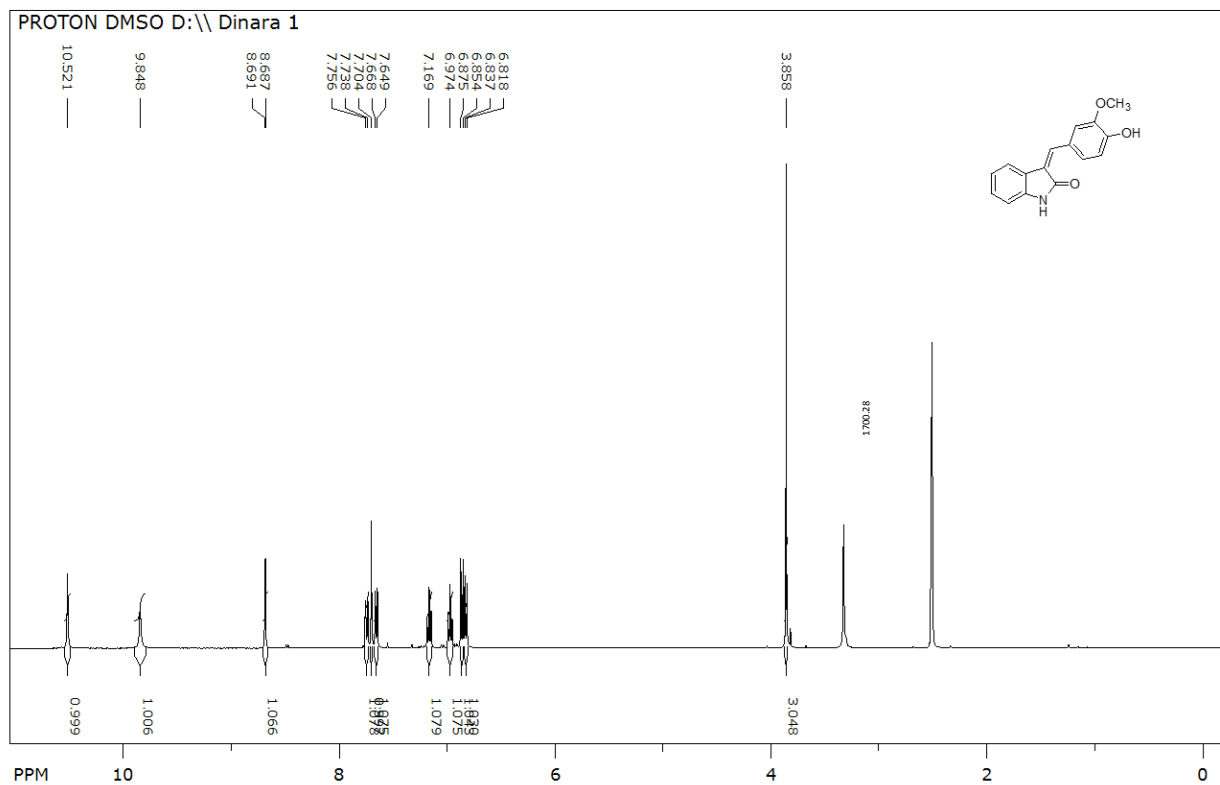


Fig. S7 ^1H NMR spectrum of compound 3d (DMSO, 400 MHz)

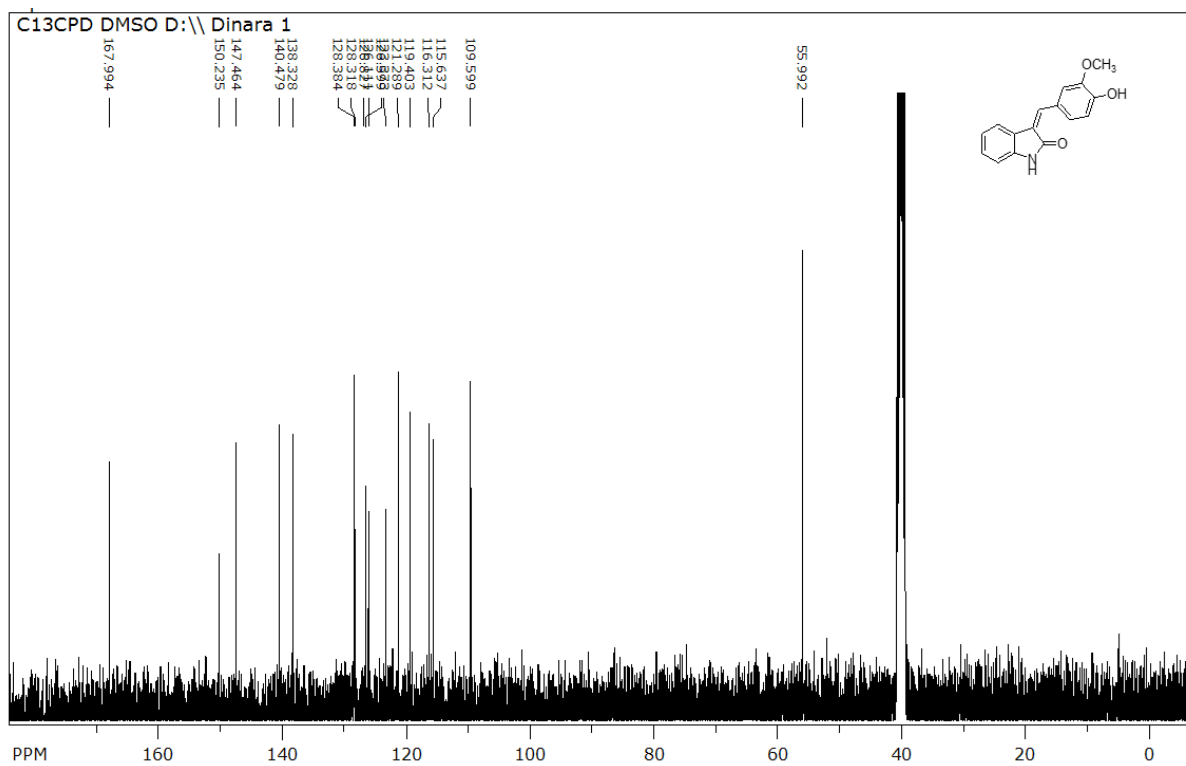


Fig. S8 ^{13}C NMR spectrum of compound 3d (DMSO, 400 MHz)

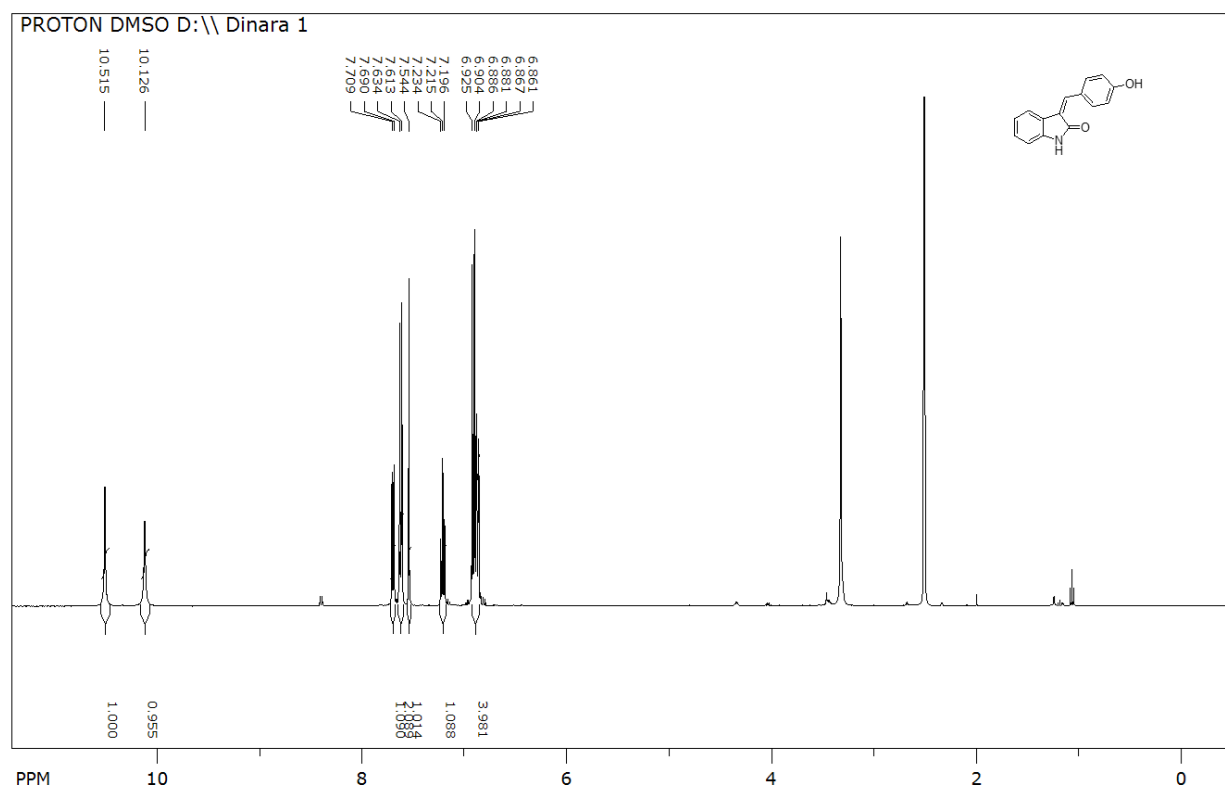


Figure S9 ^1H NMR spectrum of compound 3e (DMSO, 400 MHz)

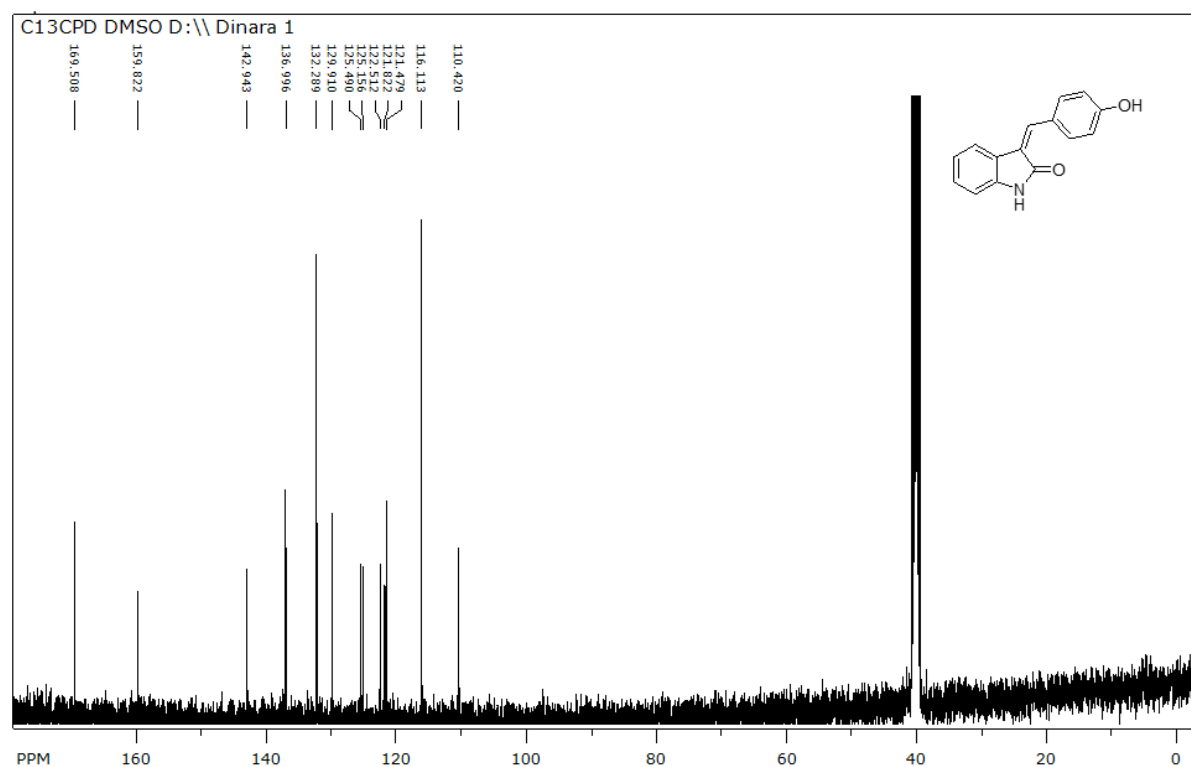


Fig. S10 ^{13}C NMR spectrum of compound 3e (DMSO, 400 MHz)

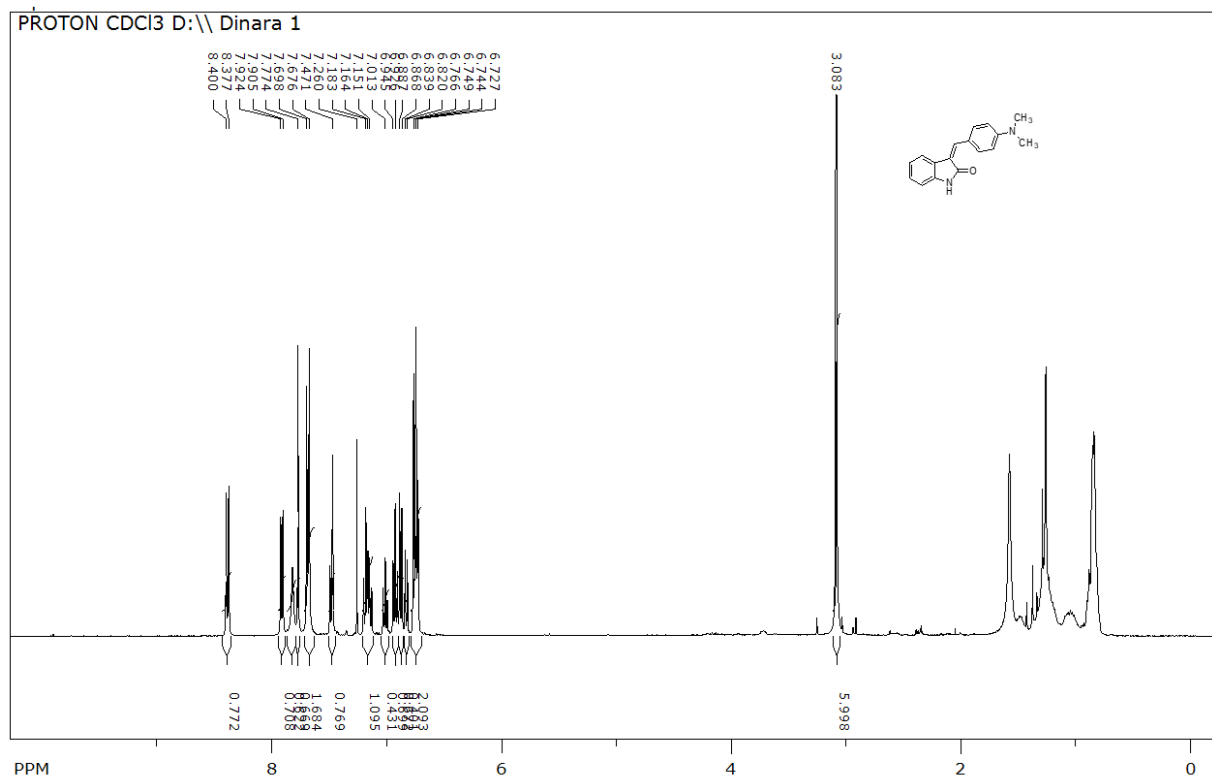


Fig. S11 ¹H NMR spectrum of compound 3f (CDCl₃, 400 MHz)

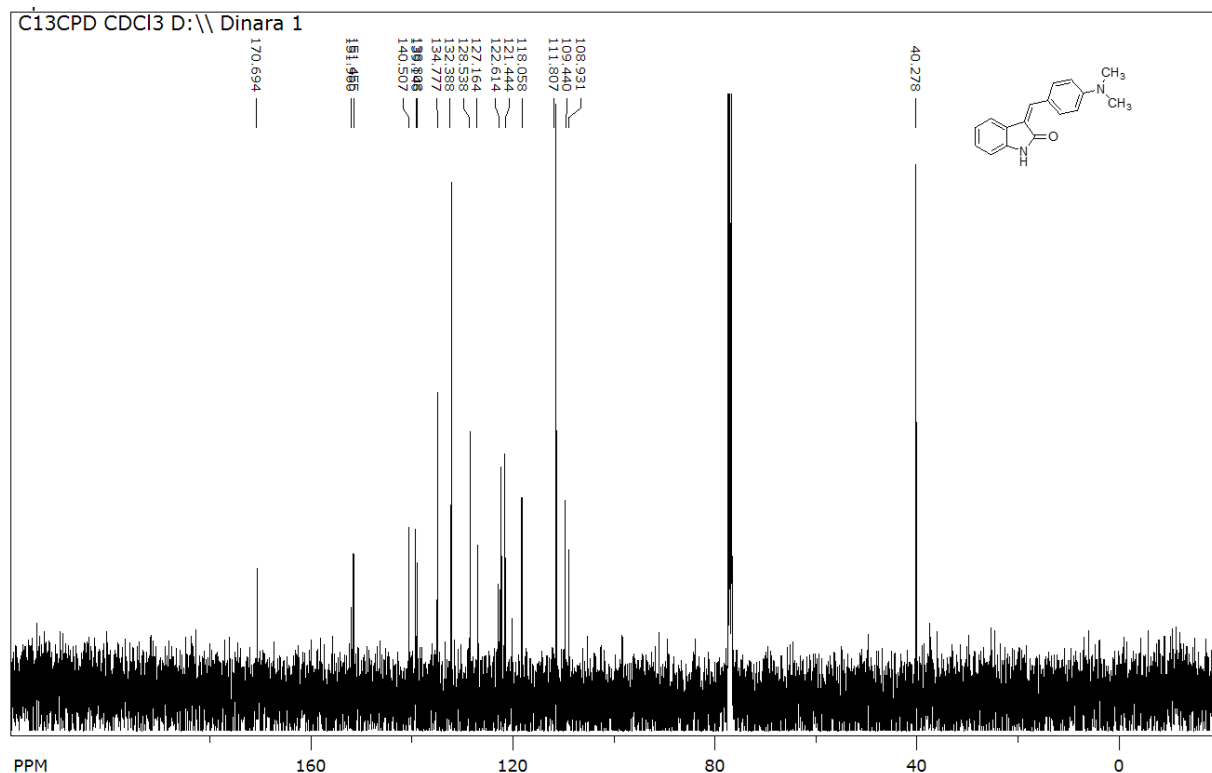


Fig. S12 ¹³C NMR spectrum of compound 3f (CDCl₃, 400 MHz)

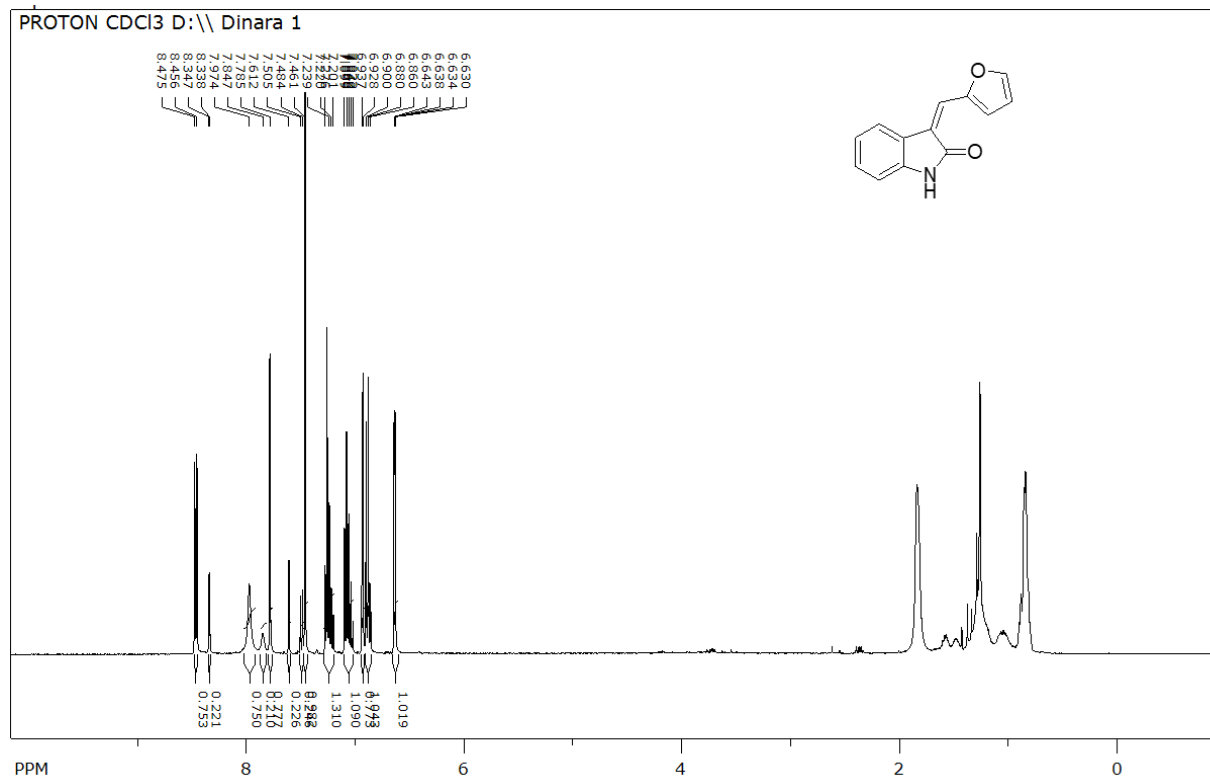


Fig. S13 ¹H NMR spectrum of compound 3g (CDCl₃, 400 MHz)

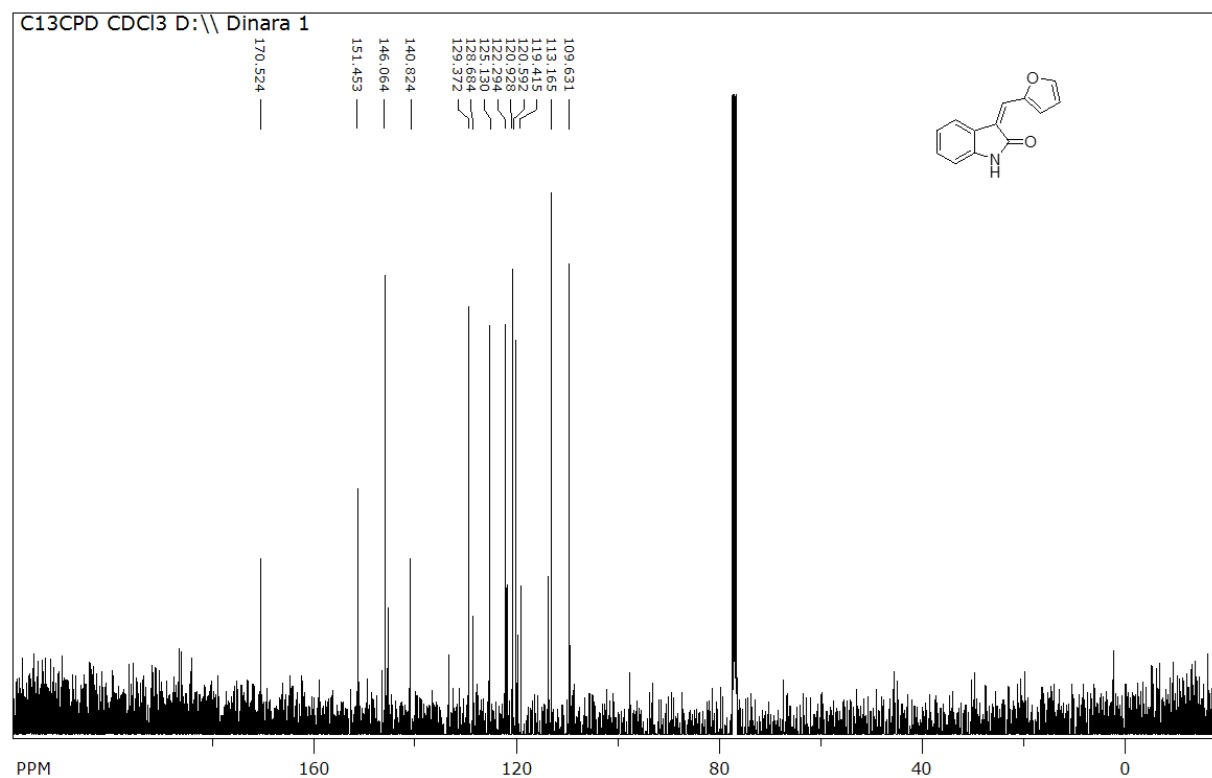


Fig. S14 ¹³C NMR spectrum of compound 3g (CDCl₃, 400 MHz)

Table S1

Calculation of C/N ratio and APTES coverage based on CHN analysis.

	C	H	N
Weight composition in 100 (g) of APTES silica	3.47 g	0.93 g	1.17 g
mol	$\frac{3.47 \text{ g}}{12 \text{ g mol}^{-1}}$	$\frac{0.93 \text{ g}}{1 \text{ g mol}^{-1}}$	$\frac{1.17 \text{ g}}{14 \text{ g mol}^{-1}}$
	0.29 mol	0.93 mol	0.084 mol
mol ratio	$\frac{0.29 \text{ mol}}{0.084 \text{ mol}}$	$\frac{0.93 \text{ mol}}{0.084 \text{ mol}}$	$\frac{0.084 \text{ mol}}{0.084 \text{ mol}}$
	3.46	11.07	1

C:N ratio 3.46

Surface coverage of modified silica 0.84 mmol/g.