Supporting Information

Fabrication of egg shell like nanovesicles from thiocoumarin based ε-amino ester: a potential carrier†

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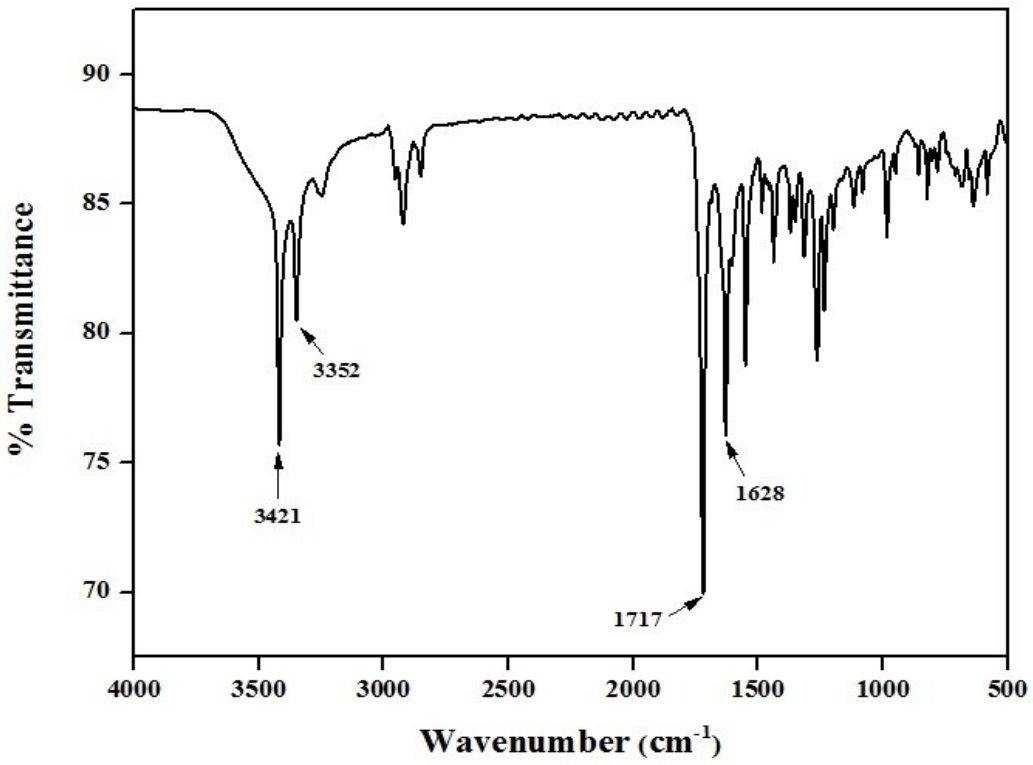
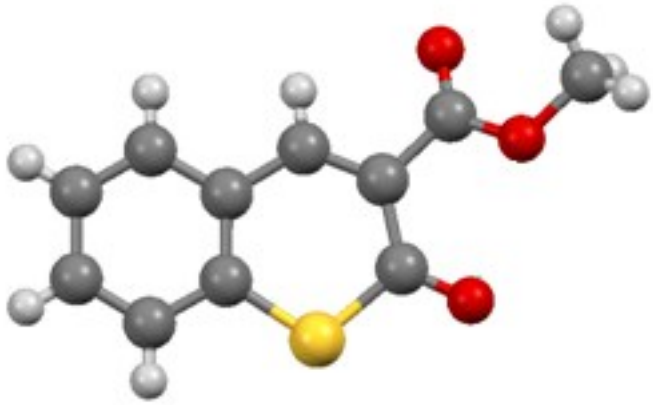
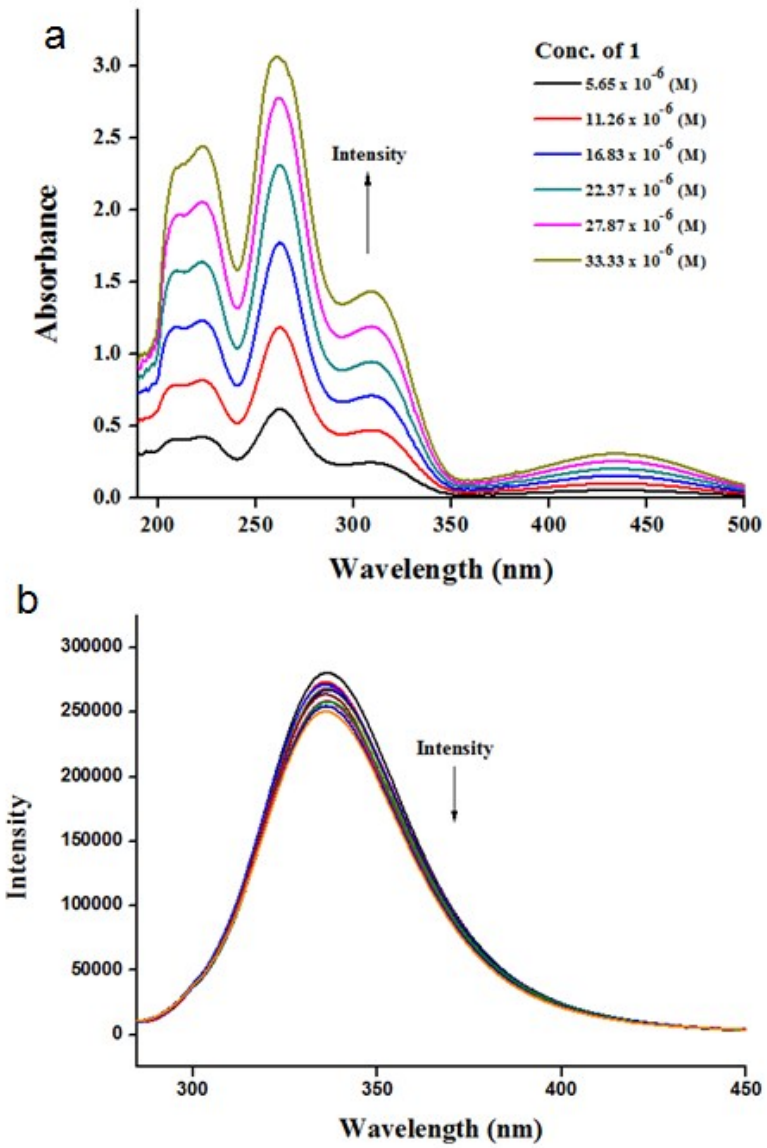


ESI Figure S1: FT-IR spectrum of Compound **1.**



ESI Figure S2: Crystal structure of compound **5.**



ESI Figure S3: (a) UV/Vis spectra of compound **1** in methanol with increasing concentration. (b) Fluorescence spectra of sulfamethoxazole with increasing volume of solvent (methanol). Excitation wavelength is 262 nm. Drug conc. = 1 x 10^{-5} M.

Drug	Comp+Drug	Comp
d = 2.8 cm	**d = 2.45 cm**	**d = 0 cm**

Table S1: Mean diameters of the growth inhibition zones of E.Coli for the compound 1-drug conjugate and compound 1 against sulfamethoxazole (drug) in centimeters.

Table S2: Crystallographic Parameters of compound 1.

Empirical formula	$C_{11}H_9NO_3S$
Formula weight	235.25
Temperature/K	100.00(10)
Crystal system	monoclinic
Space group	$P2_1/c$
a/Å	6.7463(4)
b/Å	21.3406(11)
c/Å	7.0237(5)
α/°	90
β/°	103.448(6)
γ/°	90
Volume/Å^3	983.47(11)
Z	4
ρ_{calc}g/cm^3	1.589
μ/mm^{-1}	0.318
F(000)	488.0
Crystal size/mm^3	0.25879 × 0.236554 × 0.1258
Radiation	MoKα (λ = 0.71073)
2Θ range for data collection/°	6.21 to 54.522
Index ranges	$-8 \leq h \leq 4$, $-23 \leq k \leq 26$, $-7 \leq l \leq 9$
Reflections collected	3032
Independent reflections	1993 [R_{int} = 0.0247, R_{sigma} = 0.0432]
Data/restraints/parameters	1993/0/151
Goodness-of-fit on F^2	1.105
Final R indexes [I>=2σ (I)]	R_1 = 0.0495, wR_2 = 0.1258
Final R indexes [all data]	R_1 = 0.0577, wR_2 = 0.1320
Largest diff. peak/hole / e Å^{-3}	0.63/-0.40

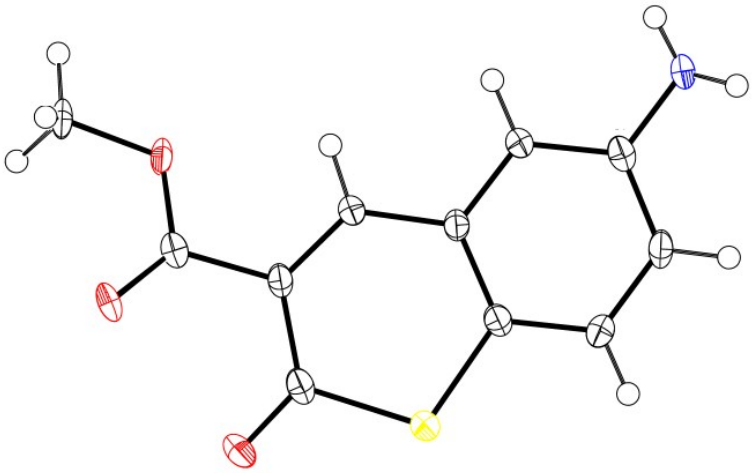


Figure S4: The ORTEP diagram of compound **1** obtained from DMSO. Ellipsoids are drawn at the 50% probability level.

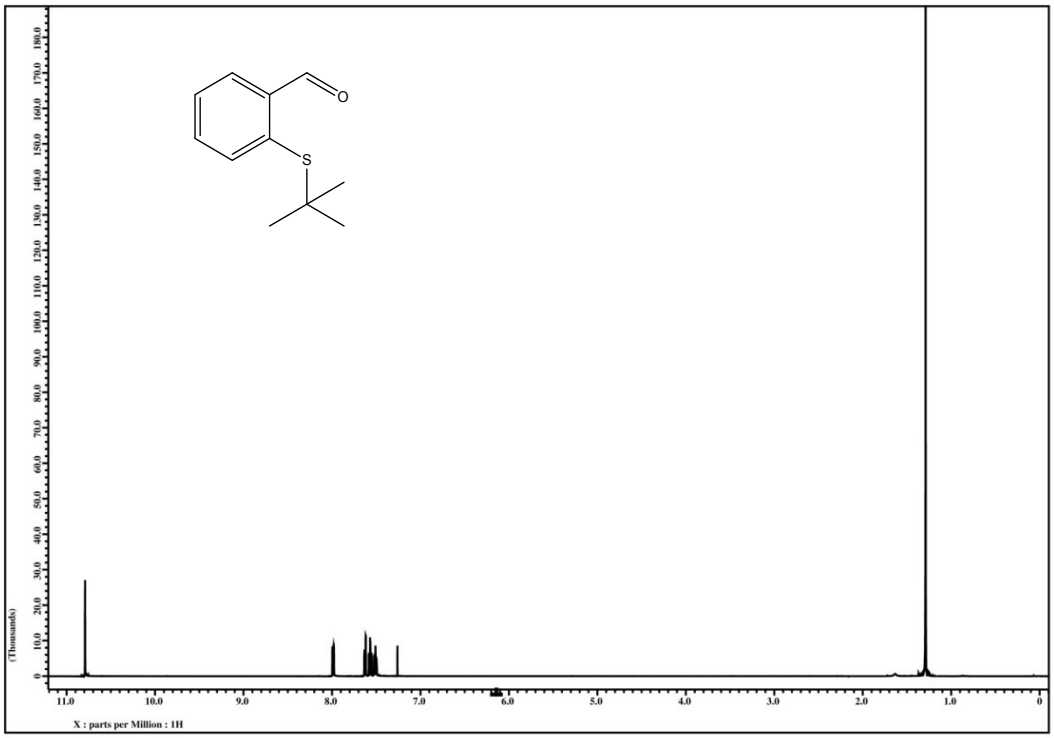


Figure S5: ^{1}H NMR (500 MHz, $CDCl_3$, δppm) spectra of 2-t-Butylthiobenzaldehyde, **3**.

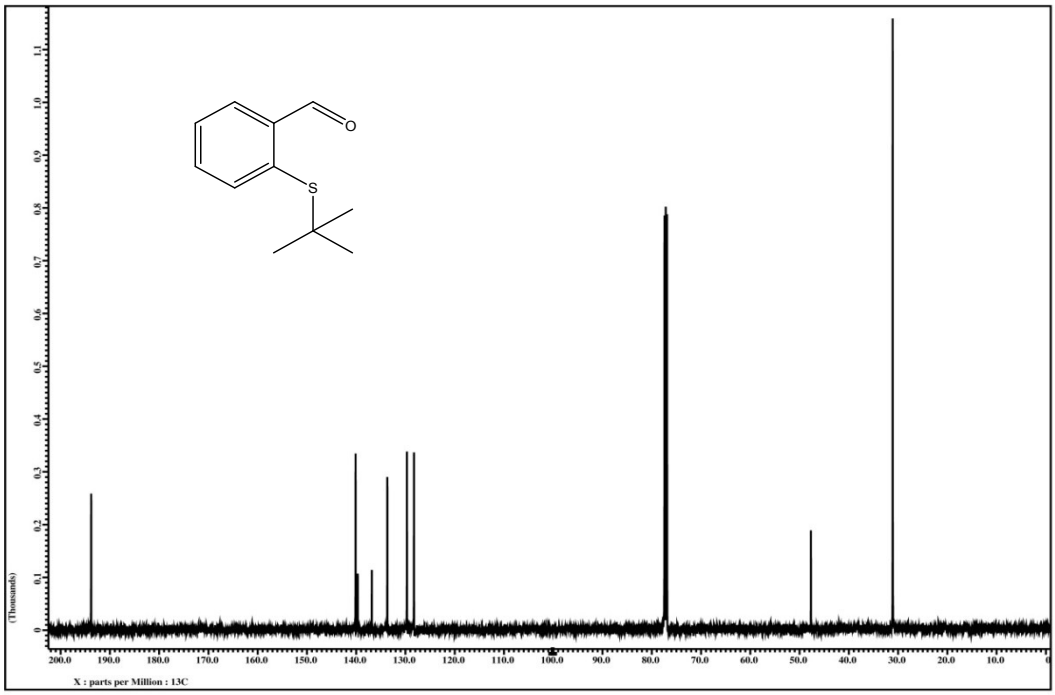


Figure S6: ^{13}C NMR (125 MHz, CDCl3, δppm) spectra of 2-t-Butylthiobenzaldehyde, **3**.

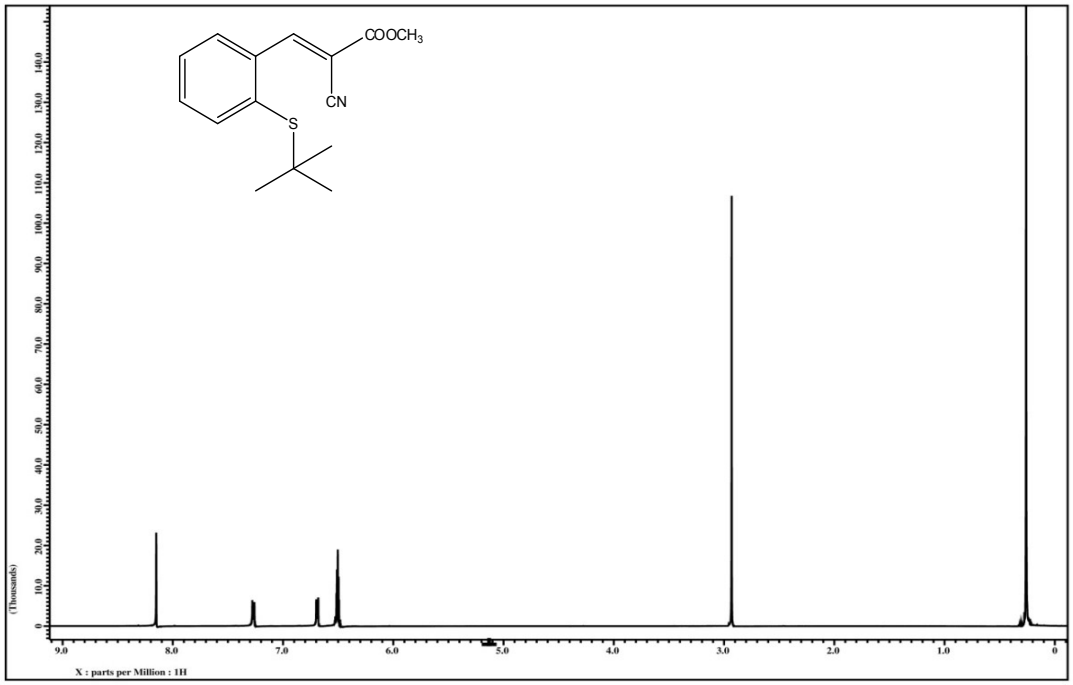


Figure S7: ^{1}H NMR (500 MHz, $CDCl_3$, δppm) spectra of Methyl 3-(2-t-butylthio)phenyl-2-cyanoacrylate, **4.**

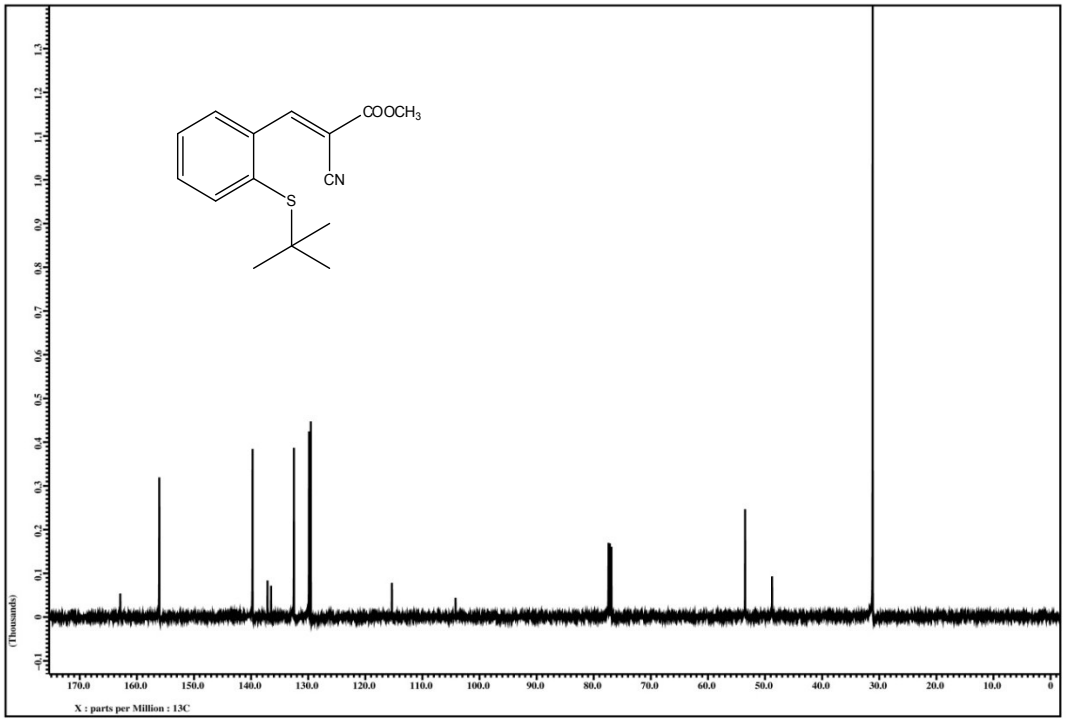


Figure S8: ^{13}C NMR (125 MHz, CDCl3, δppm) spectra of Methyl 3-(2-t-butylthio)phenyl-2-cyanoacrylate, **4.**

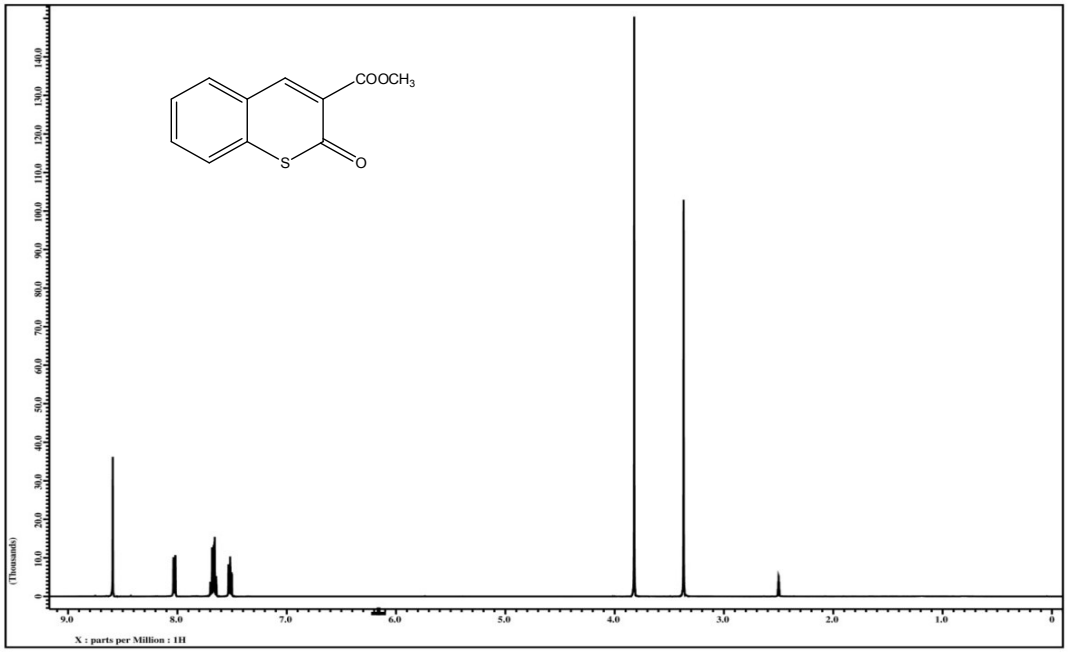


Figure S9: ^{1}H NMR (500 MHz, DMSO-d_6, δppm) spectra of Methyl 2-oxo-2H-thiochromene-3-carboxylate, **5.**

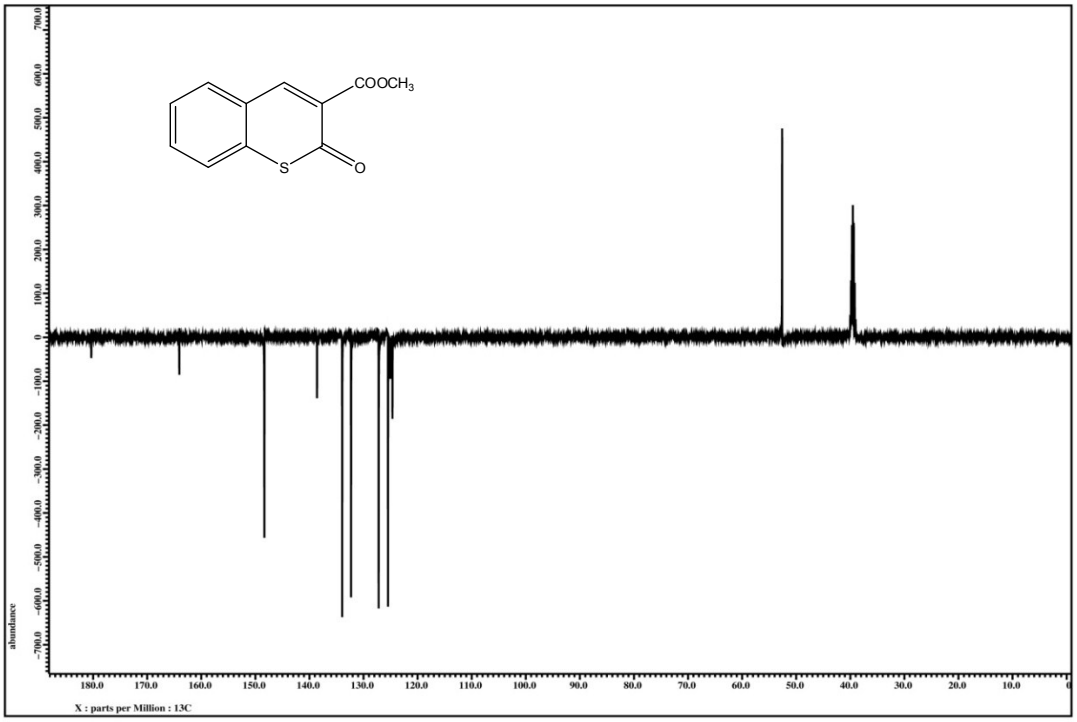


Figure S10: ^{13}C DEPT NMR (125 MHz, DMSO-d_6, δppm) spectra of Methyl 2-oxo-2H-thiochromene-3-carboxylate, **5.**

Figure S11: ^{1}H NMR (500 MHz, $CDCl_3$, δppm) spectra of Methyl 6-nitro-2-oxo-2H-thiochromene-3-carboxylate, **6.**

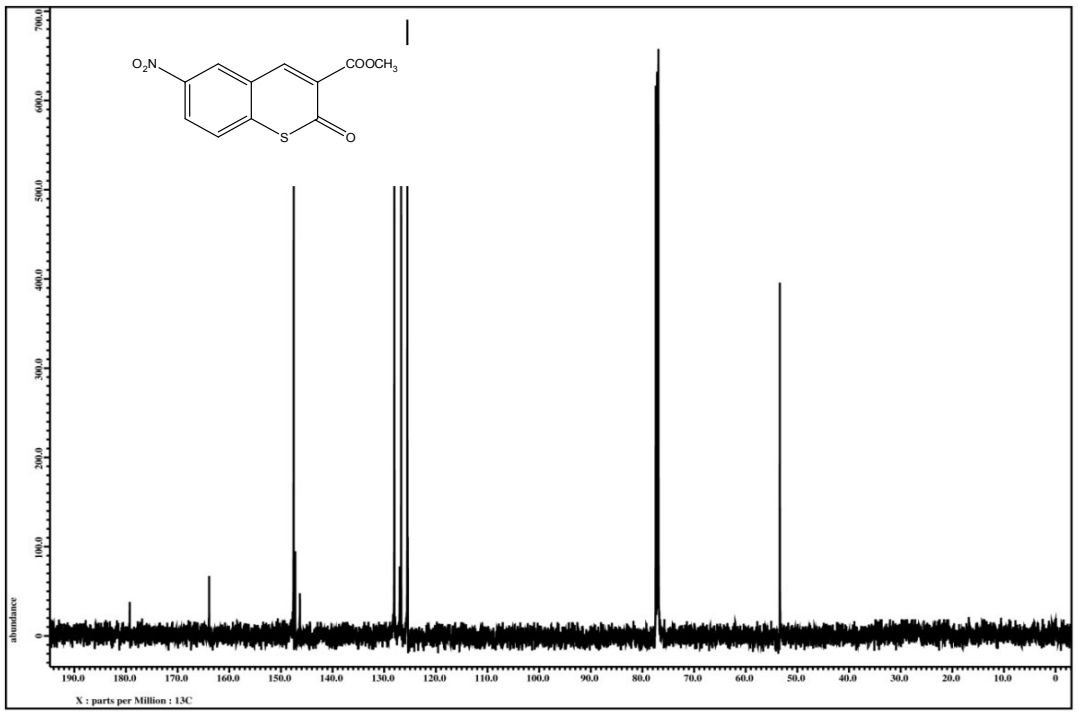


Figure S12: ^{13}C NMR (125 MHz, CDCl3, δppm)spectra of Methyl 6-nitro-2-oxo-2H-thiochromene-3-carboxylate, **6.**

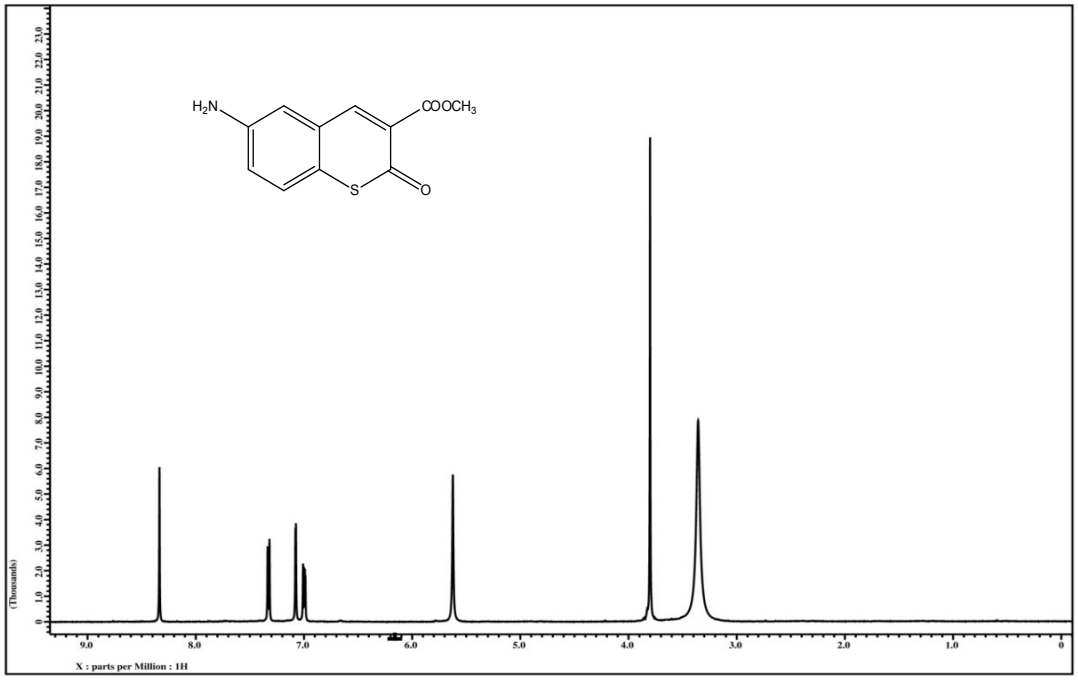


Figure S13: ^{1}H NMR (500 MHz, DMSO-d_6, δppm) spectra of Methyl 6-amino-2-oxo-2H-thiochromene-3-carboxylate, **1.**

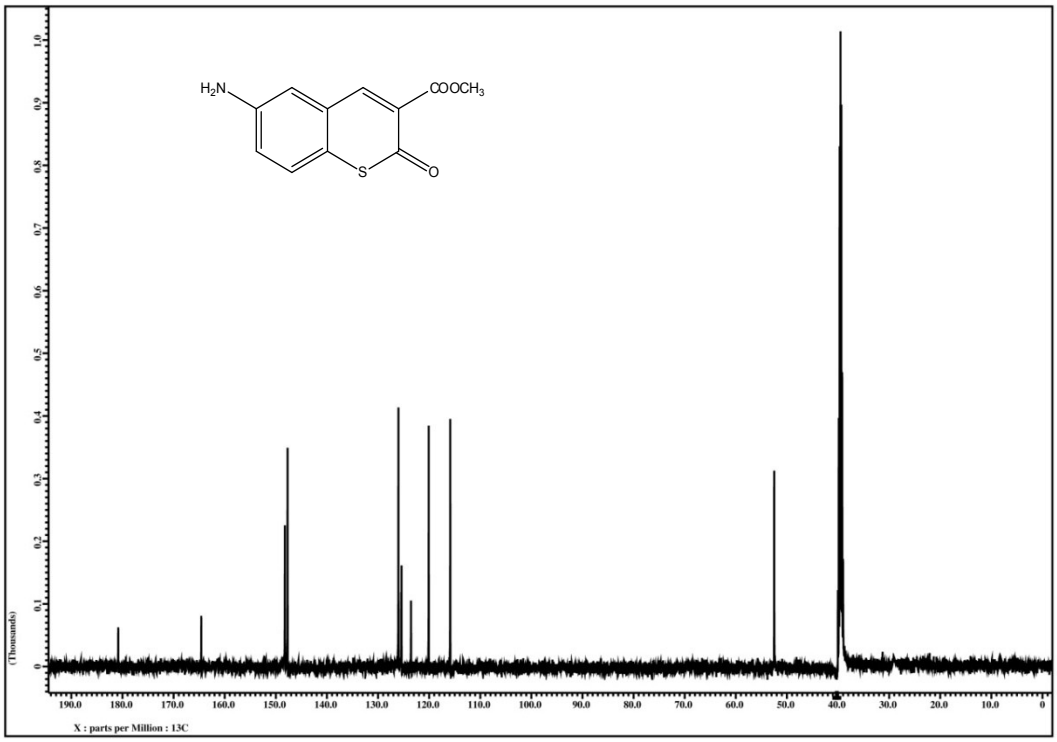


Figure S14: ^{13}C NMR (125 MHz, DMSO-d_6, δppm) spectra of Methyl 6-amino-2-oxo-2H-thiochromene-3-carboxylate, **1.**