New pyrazolyl thioureas active against the *Staphylococcus* genus

Anna Maria Schito [1], Debora Caviglia [1,2], Susanna Penco [3,] Andrea Spallarossa [2], Elena Cichero [2], Bruno Tasso [2] and Chiara Brullo [2]*

[1] Department of Surgical Sciences and Integrated Diagnostics (DISC), University of Genoa, Viale Benedetto XV, 6, 16132 Genoa, Italy; amschito@unige.it (A.M.S.), debora.caviglia@edu.unige.it (D.C)
[2] Department of Pharmacy (DIFAR), Section of Medicinal Chemistry, University of Genoa, Viale Benedetto XV, 3, 16132 Genoa, Italy; andrea.spallarossa@unige.it (A.S.), bruno.tasso@unige.it (B.T.), elena.cichero@unige.it (E.C.)
[3] Department of Experimental Medicine (DIMES), University of Genoa, Via L.B. Alberti, 2, 16132 Genoa, Italy; susanna.penco@unige.it (S.P.)
* Correspondence: chiara.brullo@unige.it

Supporting Material:

Table S1. Elemental analysis of compounds **1** and **4d.** Compounds have been considered pure when the difference between calculated and found values is ± 0.4.

Comp.	Values	%C	%H	%N	%S
1a	Calcd.	54.24	5.36	14.88	8.52
	Found	54.00	5.21	15.69	8.22
1b	Calcd.	51.77	4.86	14.20	8.13
	Found	51.20	4.66	14.10	7.99
1c	Calcd.	51.77	4.86	14.20	8.13
	Found	51.52	5.00	14.32	8.00
1d	Calcd.	51.77	4.86	14.20	8.13
	Found	51.61	4.52	13.91	8.00
1e	Calcd.	55.37	5.68	14.35	8.21
	Found	55.63	5.69	14.46	8.31
1f	Calcd.	52.93	5.18	13.72	7.85
	Found	52.77	5.00	13.56	7.44
1g	Calcd.	52.93	5.18	13.72	7.85
	Found	52.87	5.10	13.56	7.56
1h	Calcd.	52.93	5.18	13.72	7.85
	Found	52.71	5.08	13.74	7.52
1i	Calcd.	56.42	5.98	13.85	7.93
	Found	56.60	5.95	13.98	8.10
1j	Calcd.	54.02	5.49	13.26	7.59
	Found	54.14	5.50	13.30	8.00
1k	Calcd.	54.02	5.49	13.26	7.59
	Found	54.00	5.40	13.10	7.80
1l	Calcd.	54.02	5.49	13.26	7.59
	Found	54.26	5.50	13.55	7.90
1m	Calcd.	57.40	6.26	13.39	7.66
	Found	57.69	6.83	13.56	7.13
1n	Calcd.	55.03	5.77	12.84	7.34
	Found	55.00	5.55	12.65	7.14
1o	Calcd.	55.03	5.77	12.84	7.34
	Found	55.02	5.65	12.84	6.33
4d	Calcd.	56.45	8.29	16.46	//
	Found	56.23	8.00	16.54	//

Figure S1:[1]H NMR (400 MHz) of compound **1a**

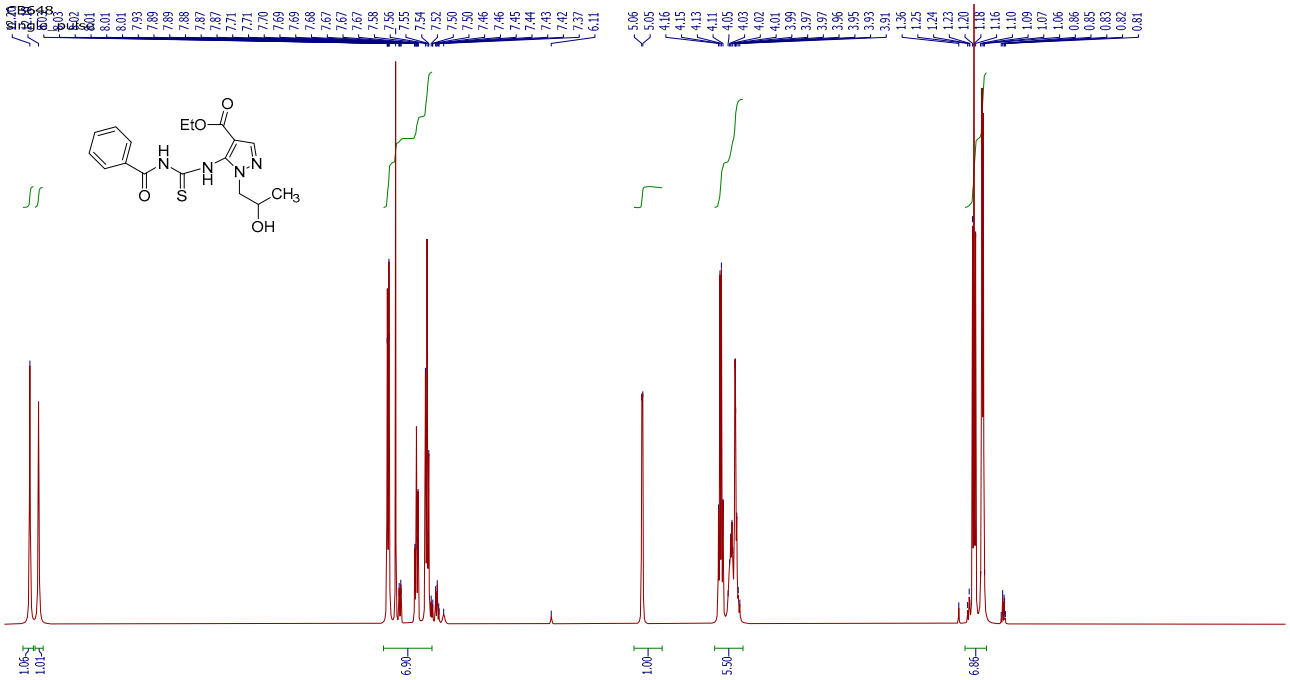

Figure S2: [13]C NMR (100 MHz) of compound **1a.**

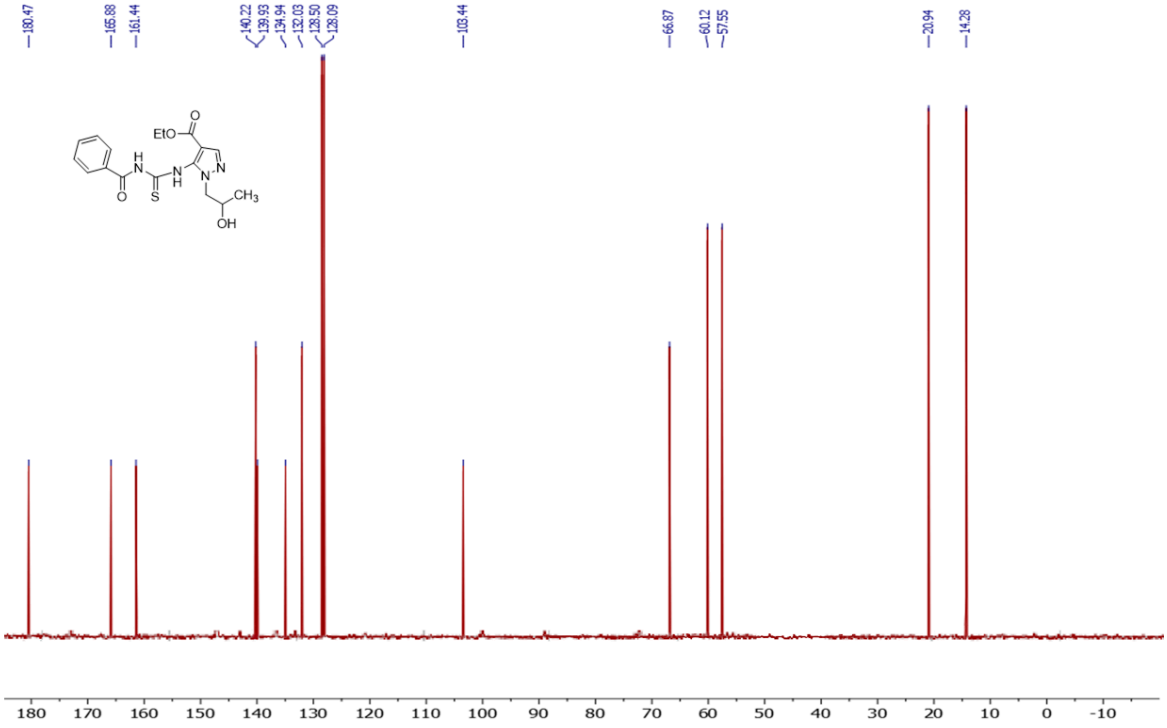

Figure S3:[1]H NMR (400 MHz) of compound **1b.**

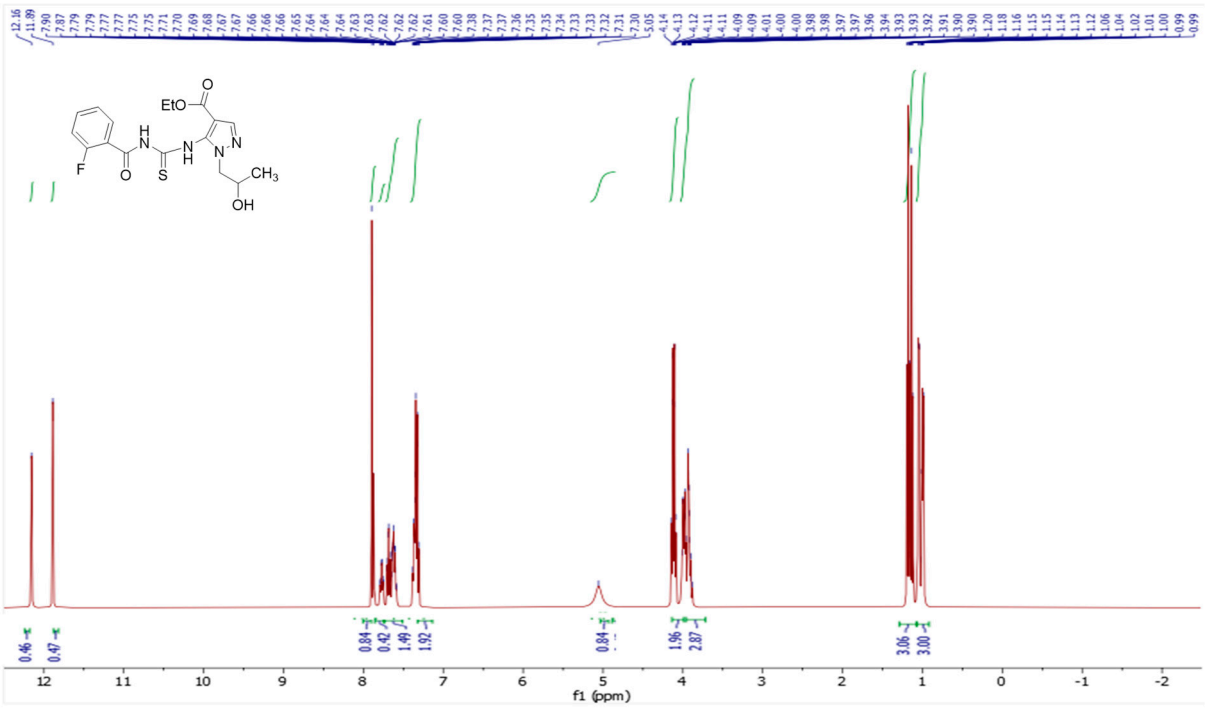

Figure S4: [13]C NMR (100 MHz) of compound **1b.**

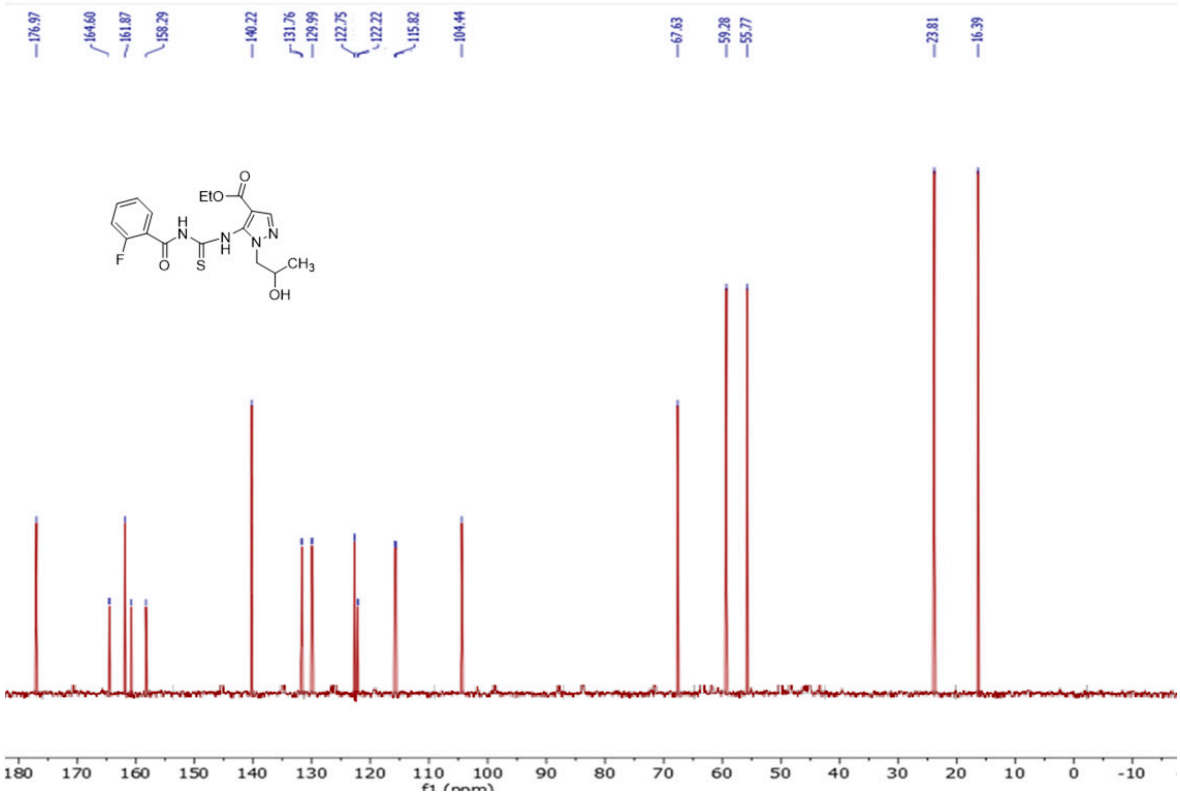

Figure S5:[1]H NMR (400 MHz) of compound **1c.**

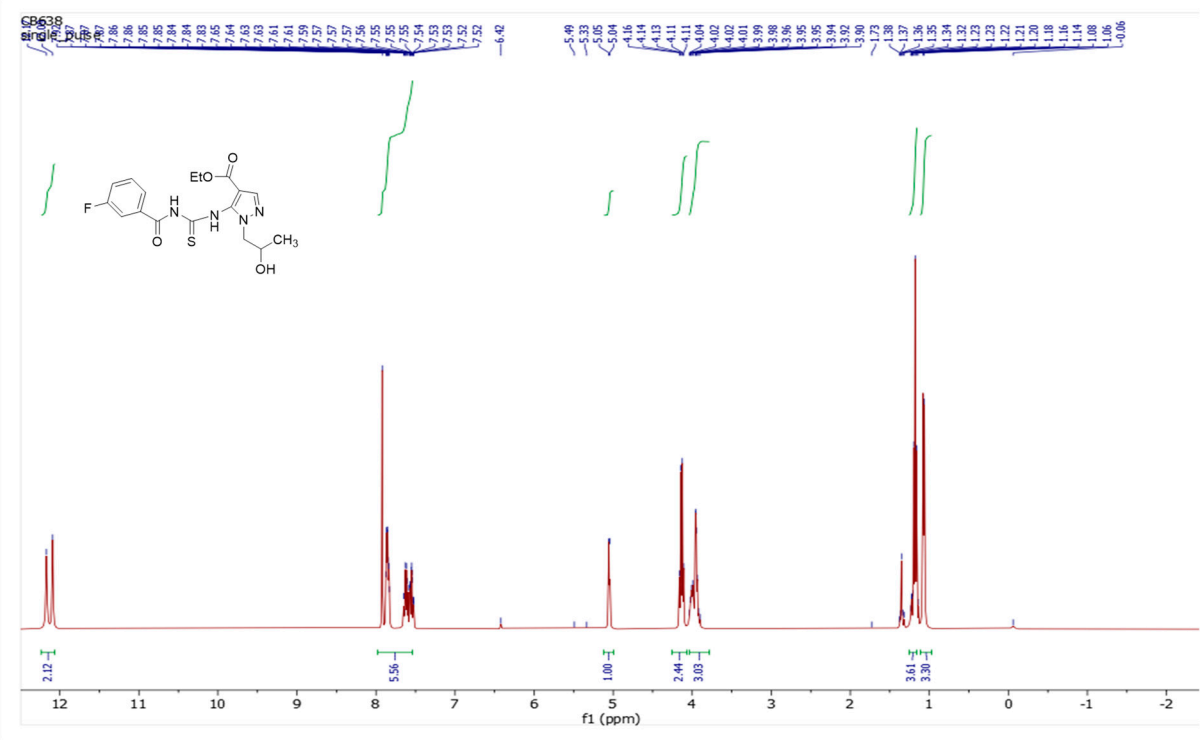

Figure S6: [13]C NMR (100 MHz) of compound **1c.**

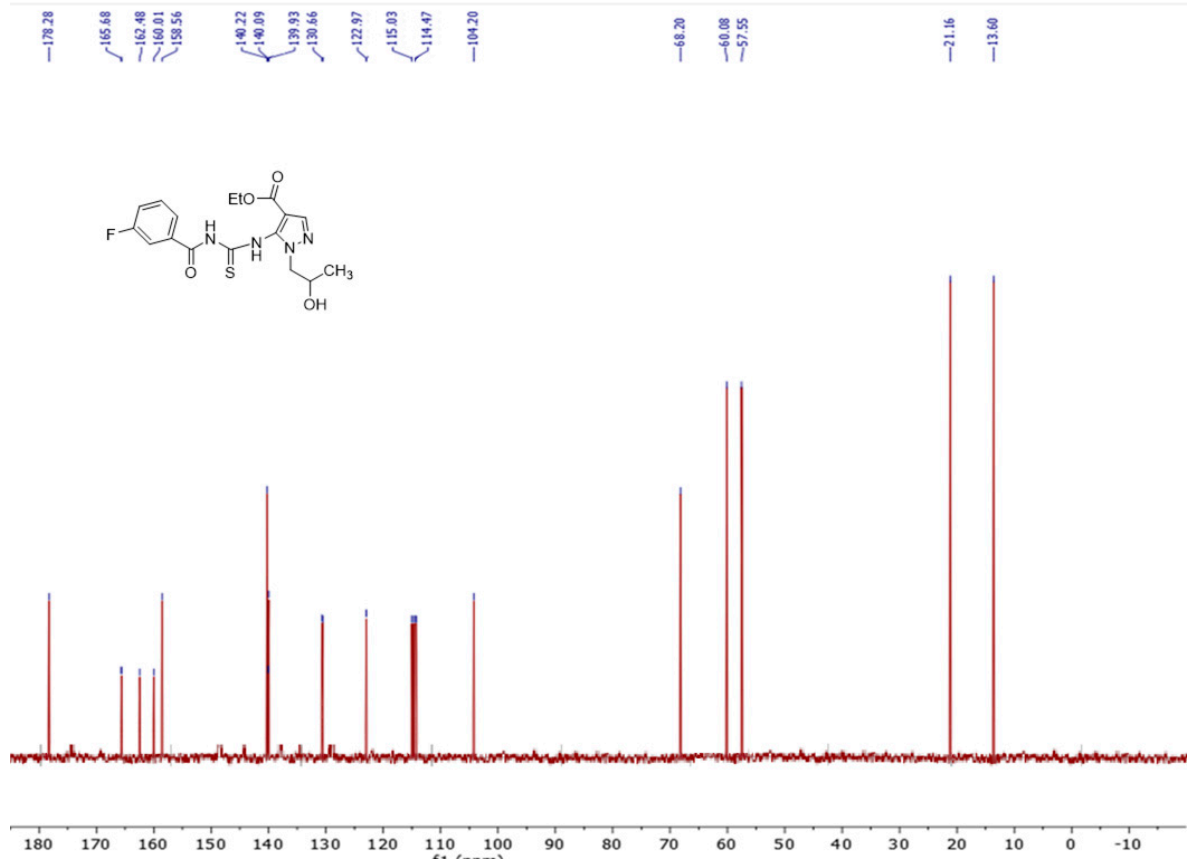

Figure S7:[1]H NMR (400 MHz) of compound **1d.**

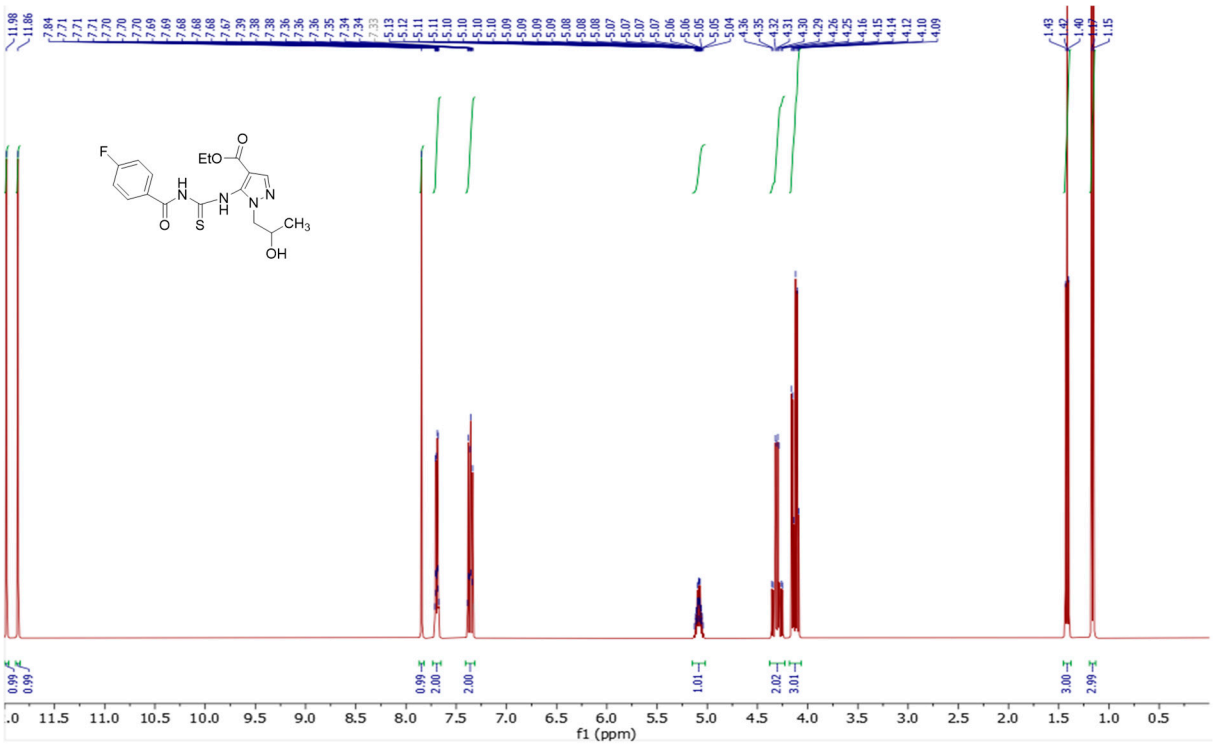

Figure S8: [13]C NMR (100 MHz) of compound **1d.**

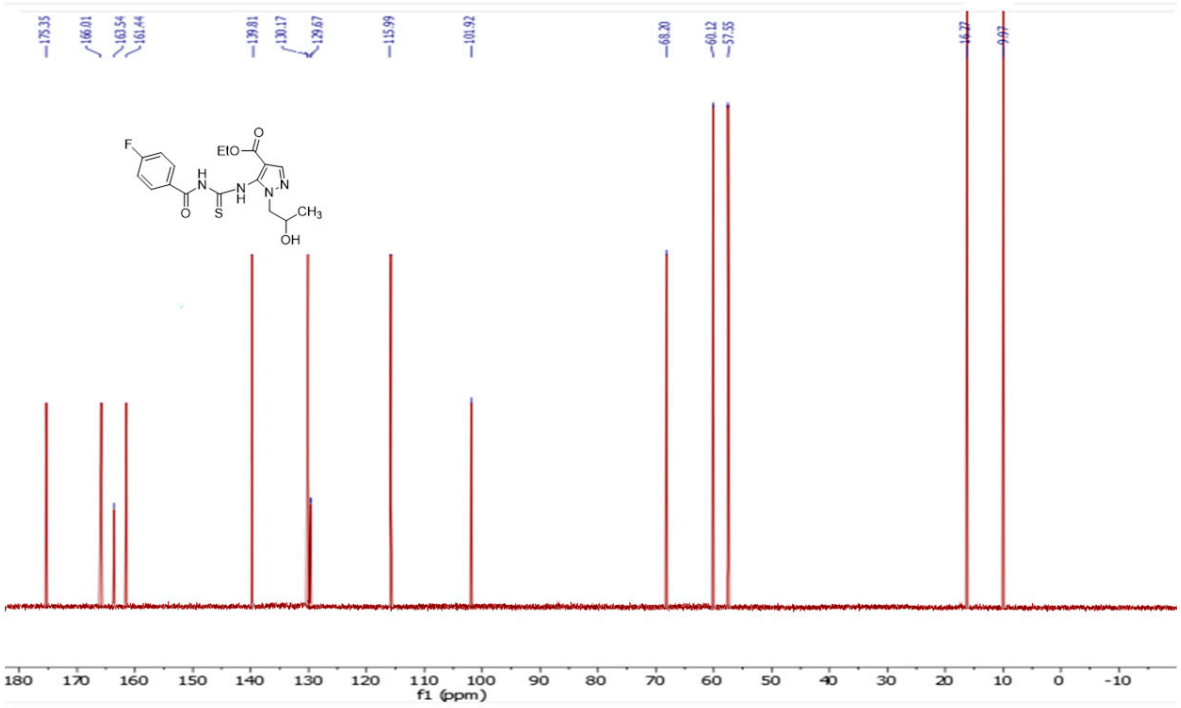

Figure S9:[1]H NMR (400 MHz) of compound **1e.**

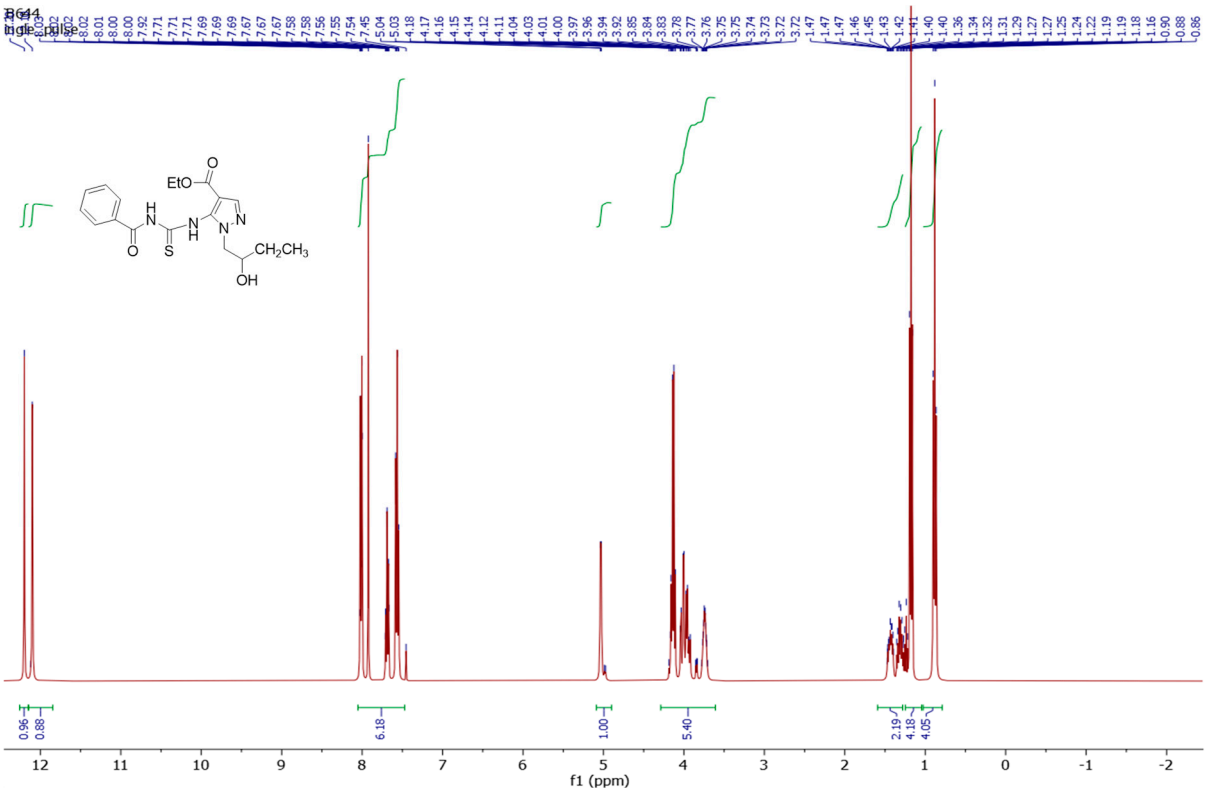

Figure S10: [13]C NMR (100 MHz) of compound **1e.**

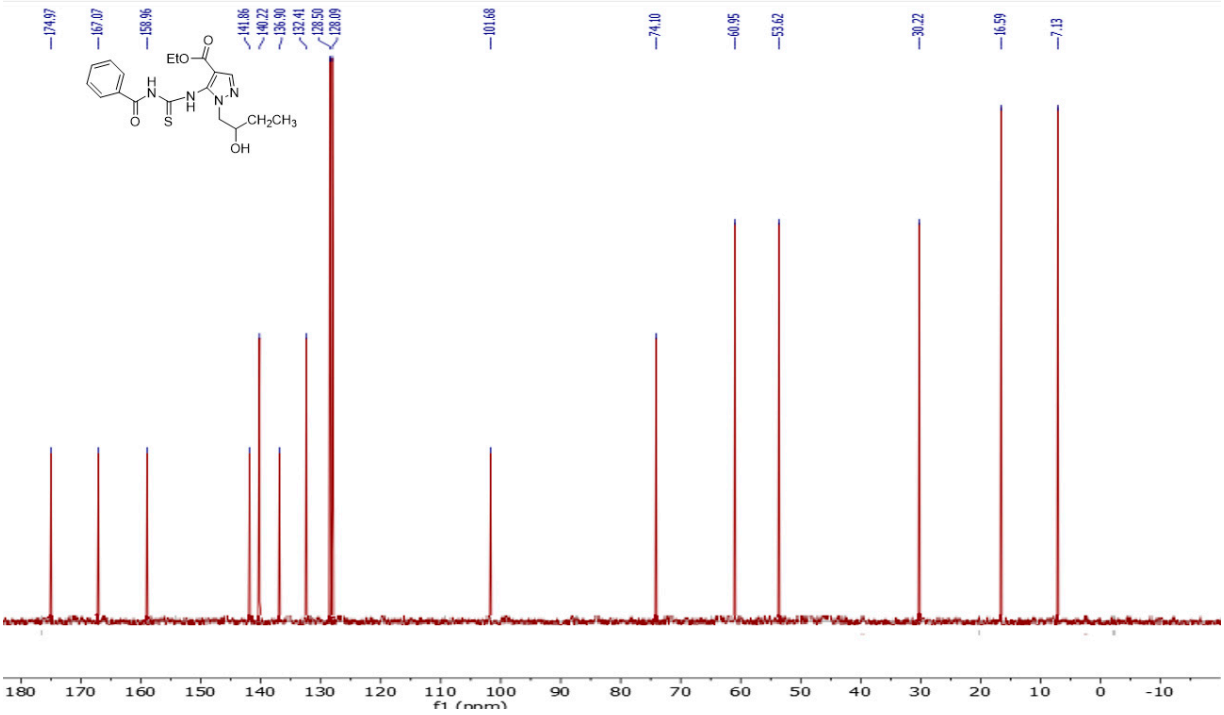

Figure S11:[1]H NMR (400 MHz) of compound **1f.**

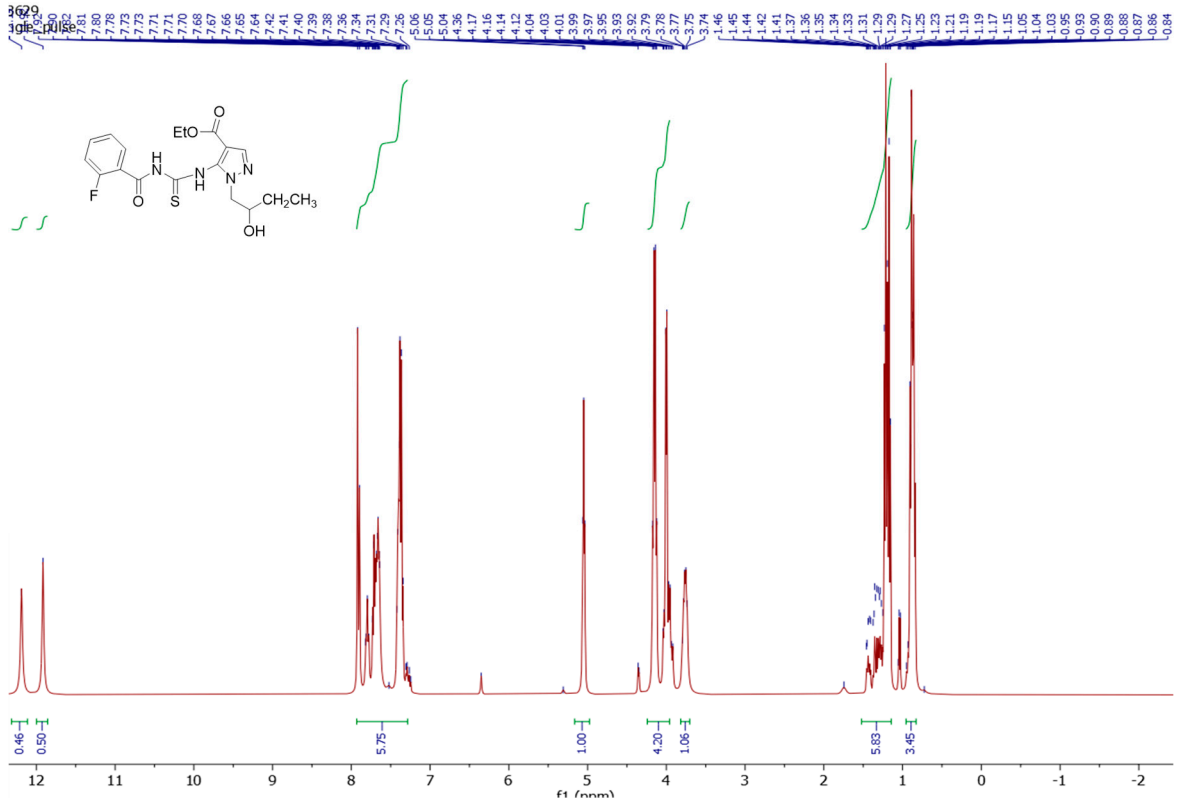

Figure S12: [13]C NMR (100 MHz) of compound **1f.**

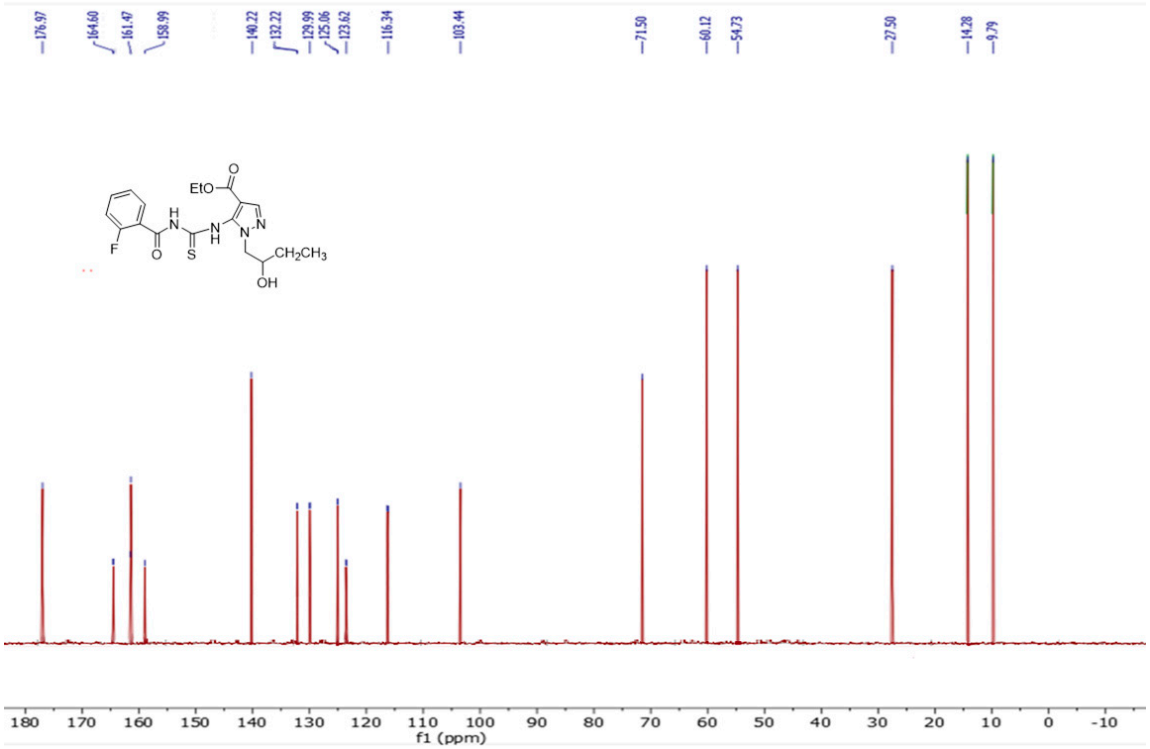

Figure S13:[1]H NMR (400 MHz) of compound **1g.**

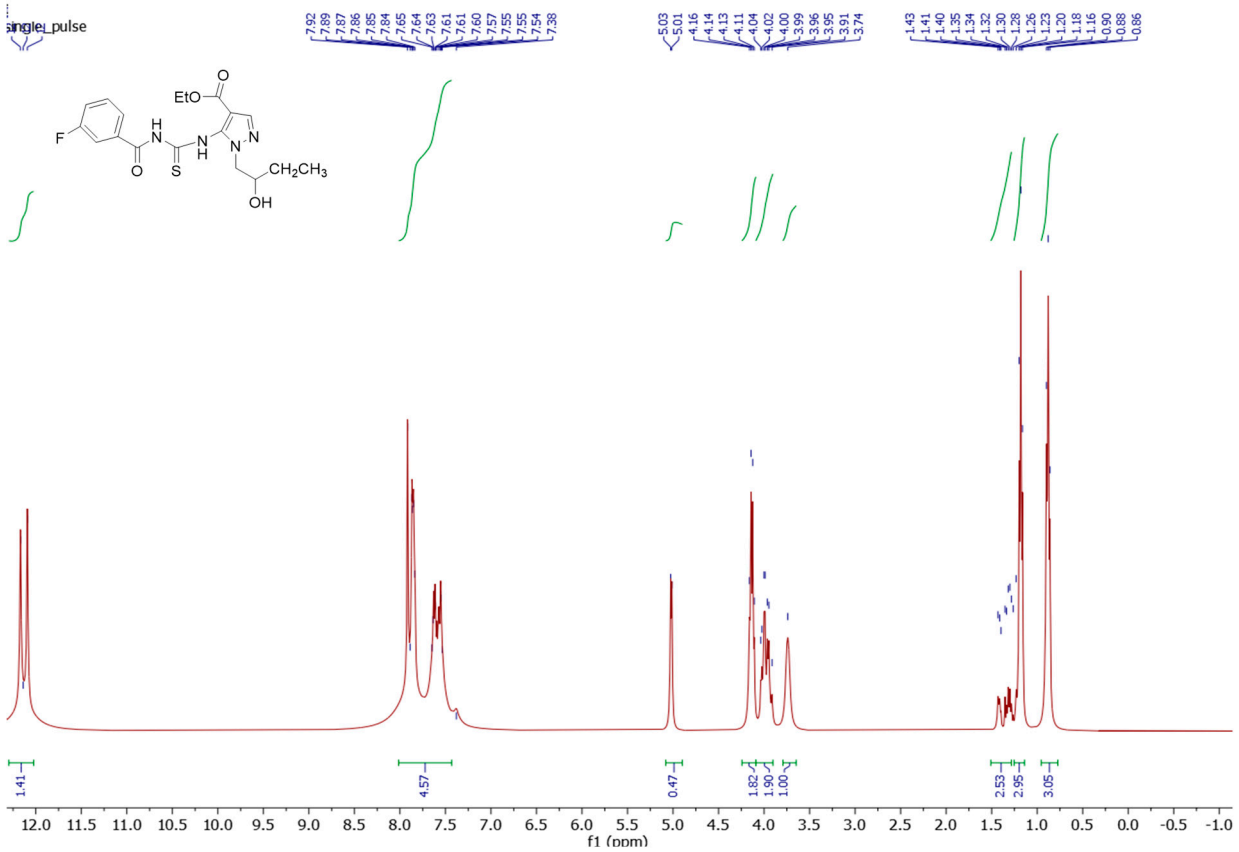

Figure S14: [13]C NMR (100 MHz) of compound **1g.**

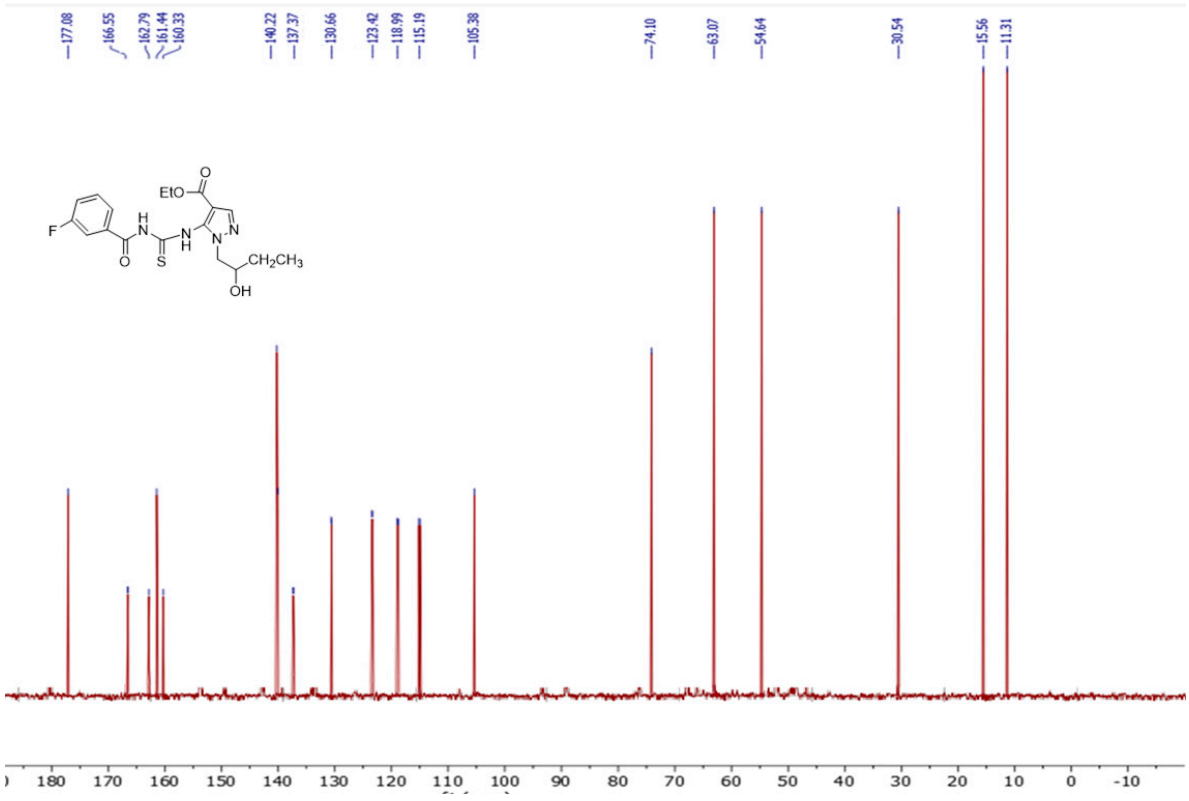

Figure S15:[1]H NMR (400 MHz) of compound **1h.**

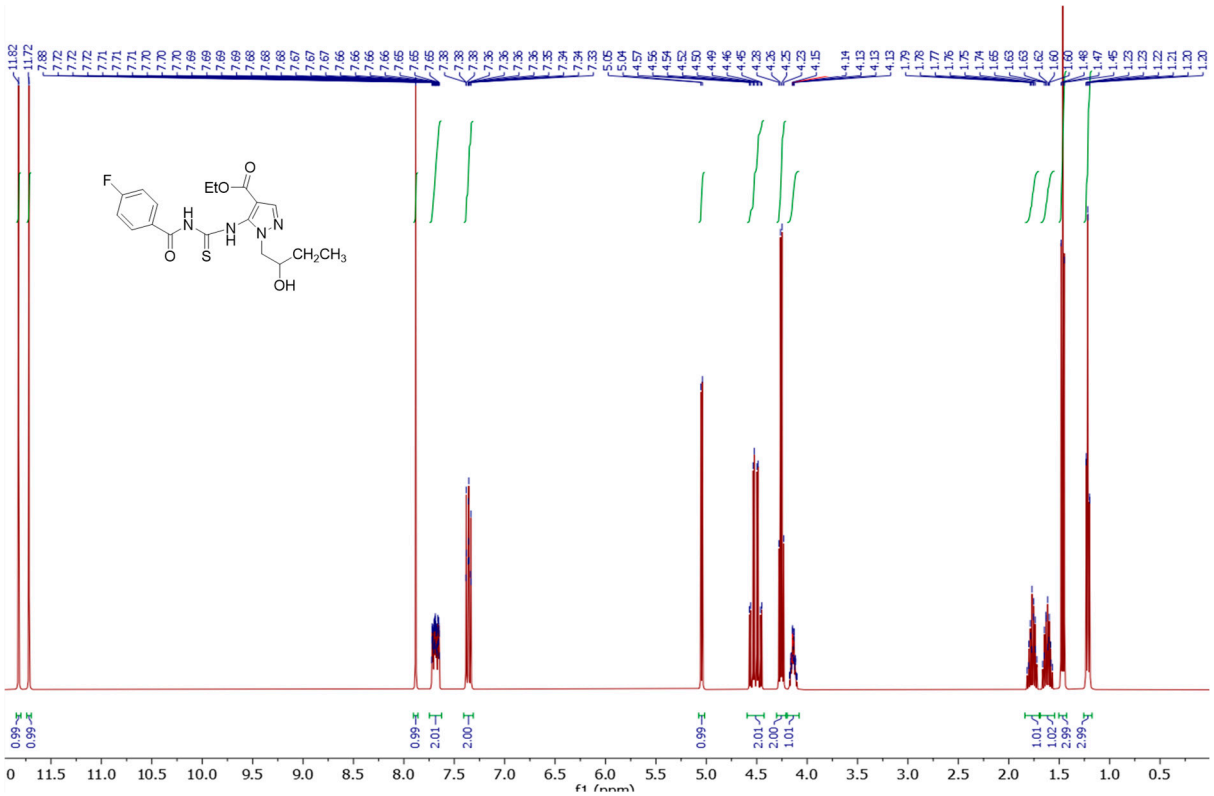

Figure S16: [13]C NMR (100 MHz) of compound **1h.**

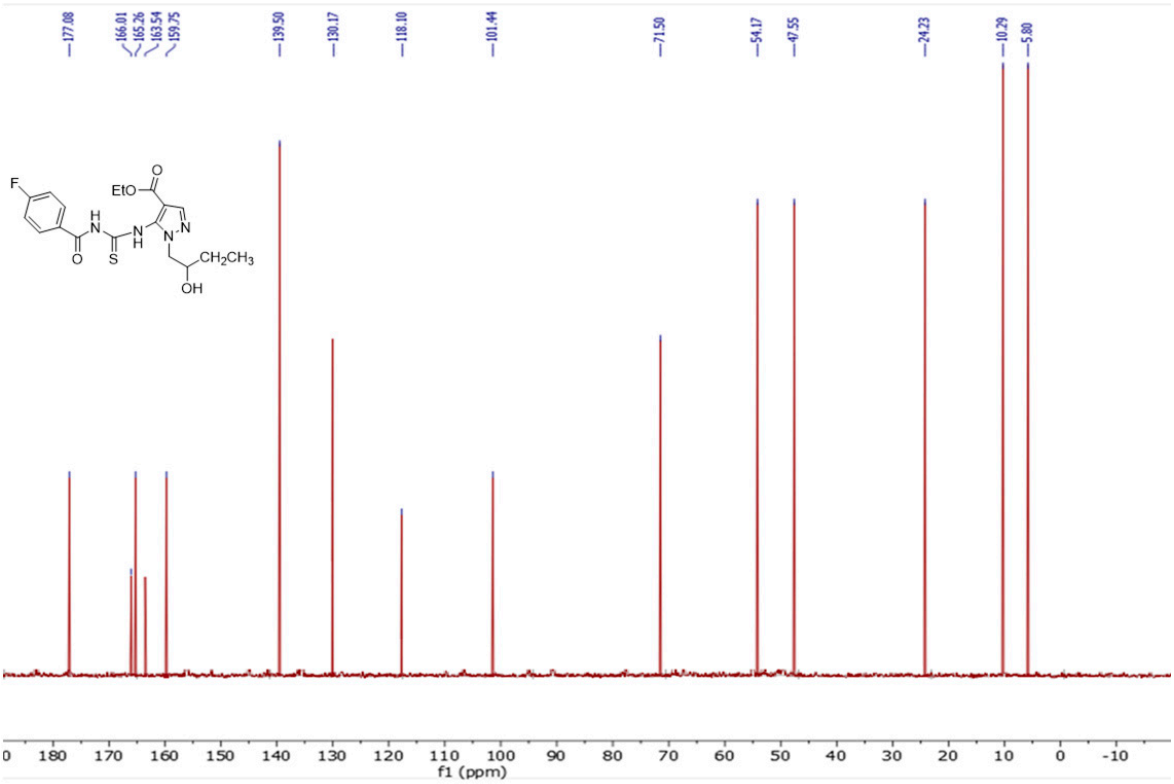

Figure S17:[1]H NMR (400 MHz) of compound **1i.**

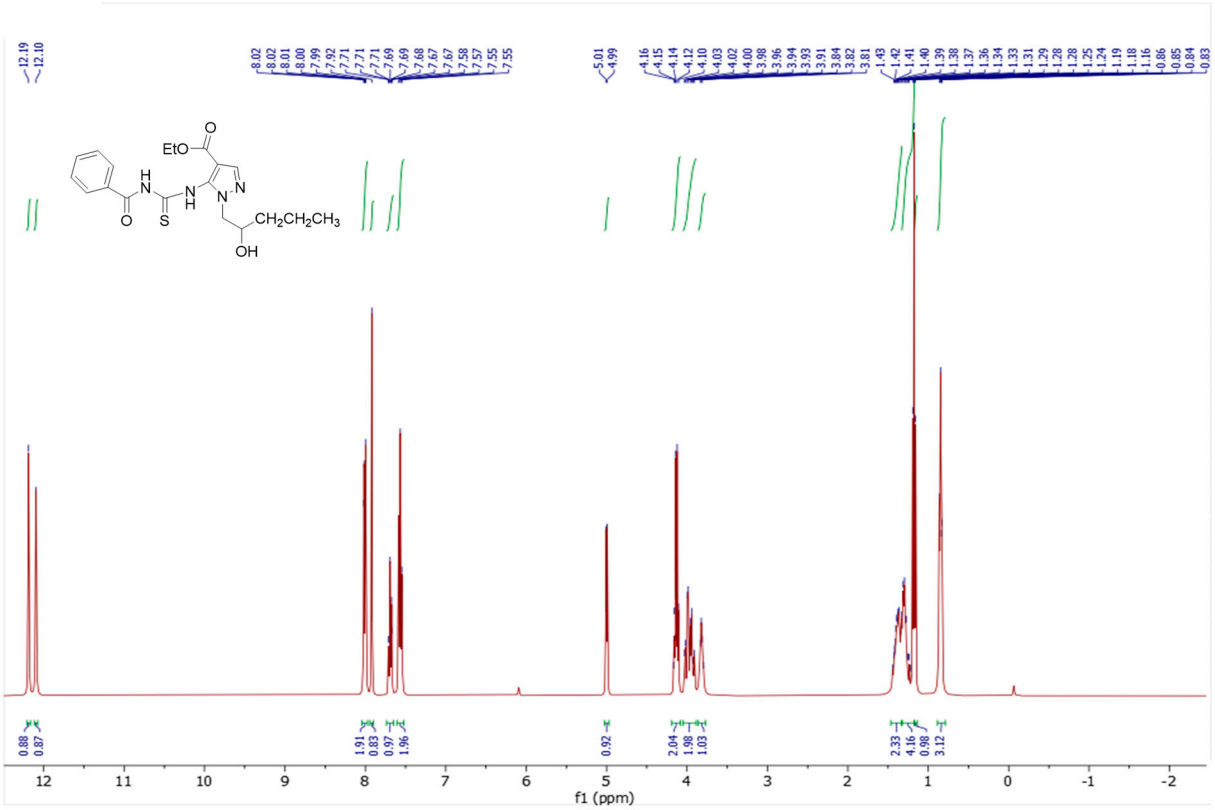

Figure S18: [13]C NMR (100 MHz) of compound **1i.**

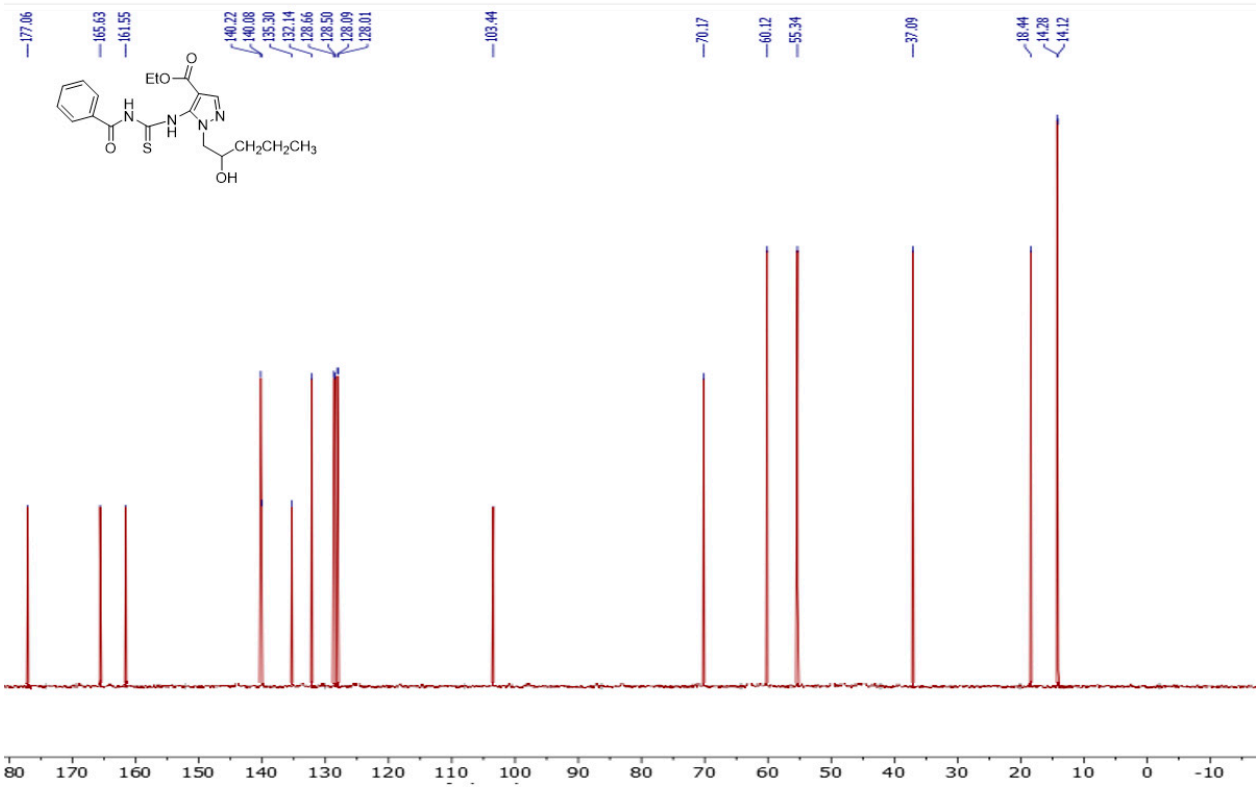

Figure S19:[1]H NMR (400 MHz) of compound **1j.**

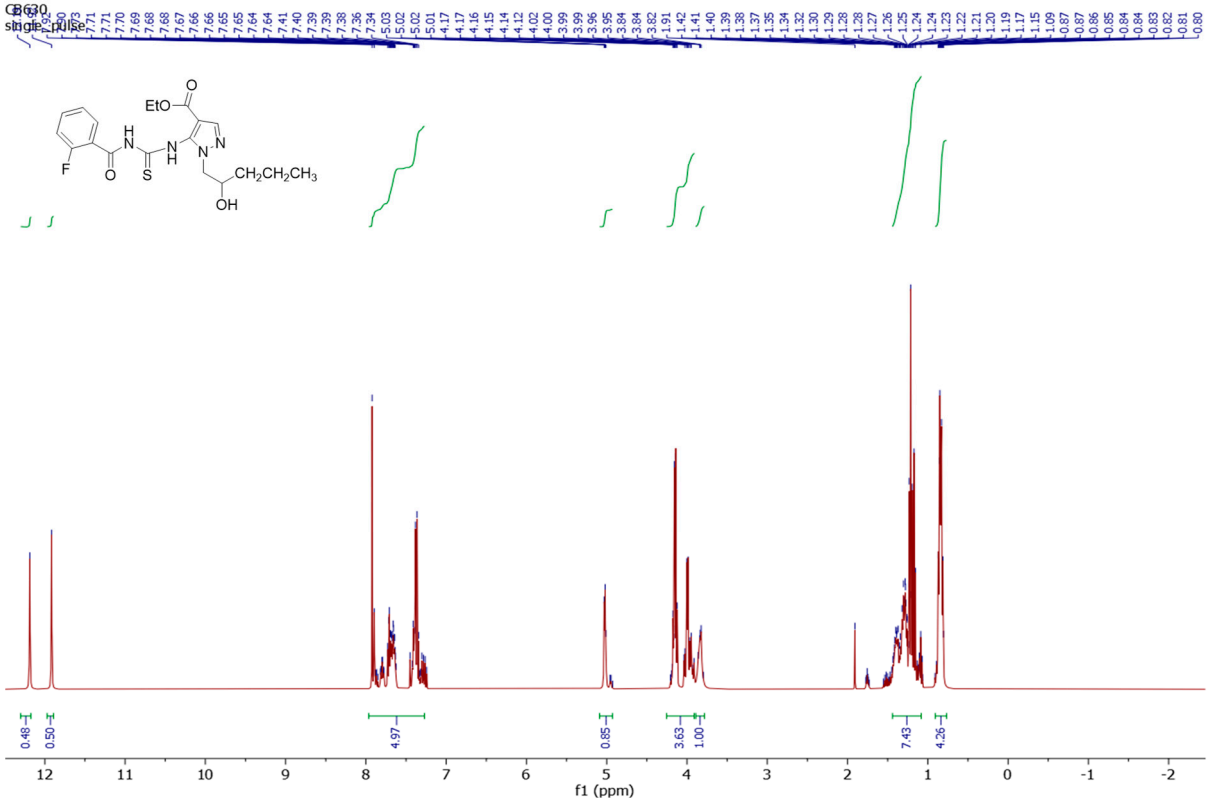

Figure S20: [13]C NMR (100 MHz) of compound **1j.**

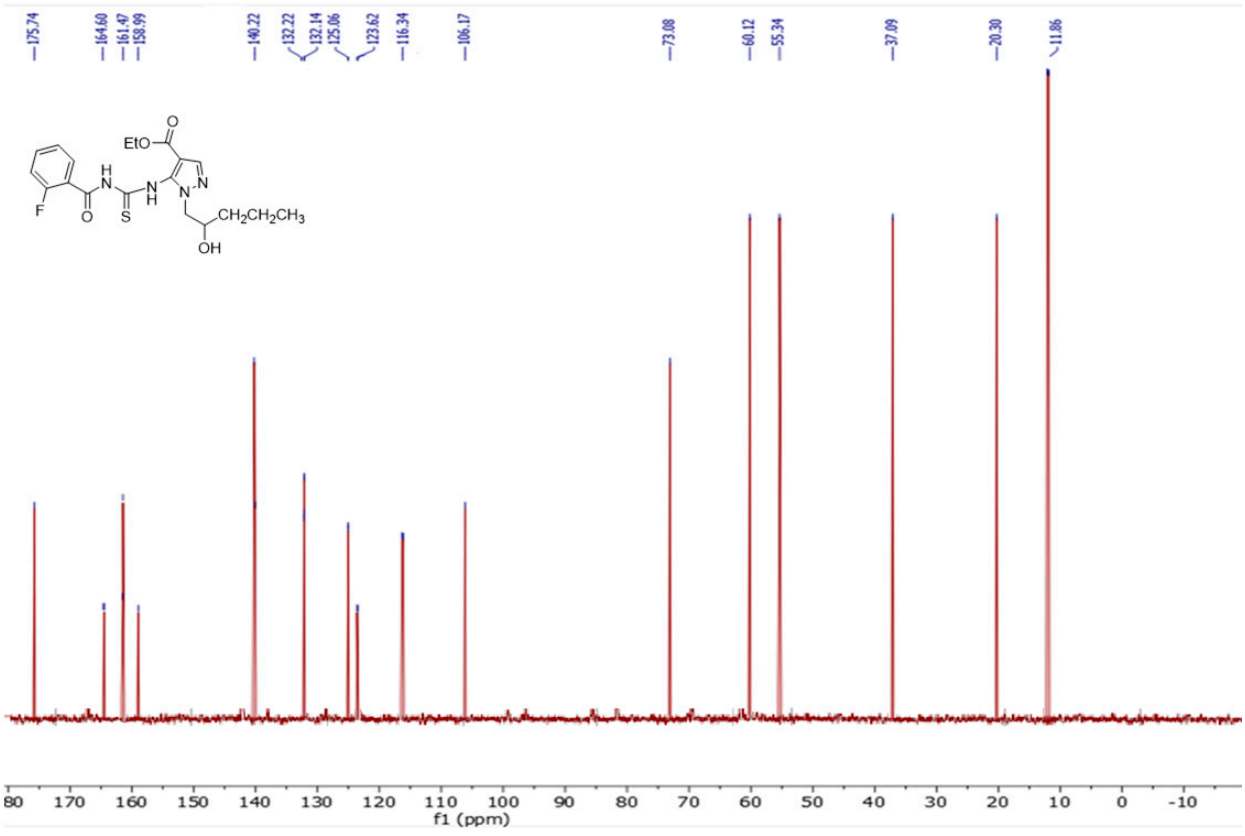

Figure S21:[1]H NMR (400 MHz) of compound **1k.**

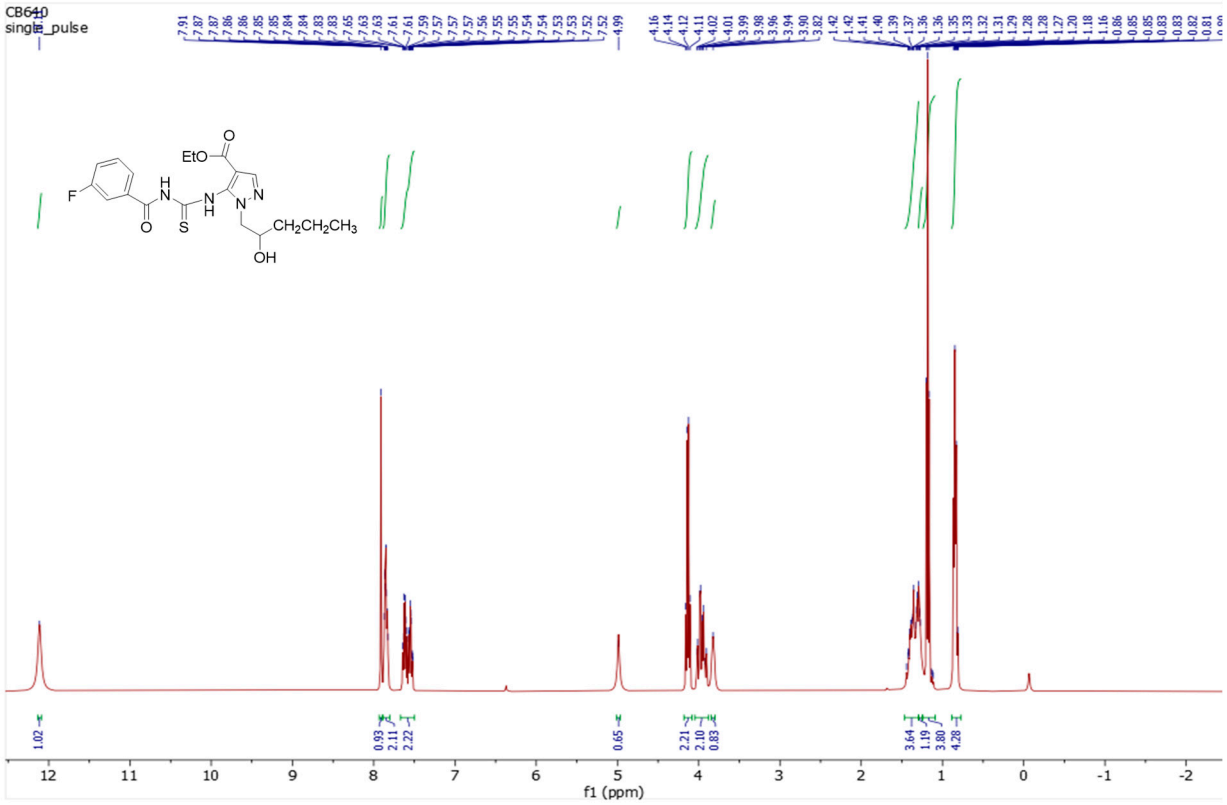

Figure S22: [13]C NMR (100 MHz) of compound **1k.**

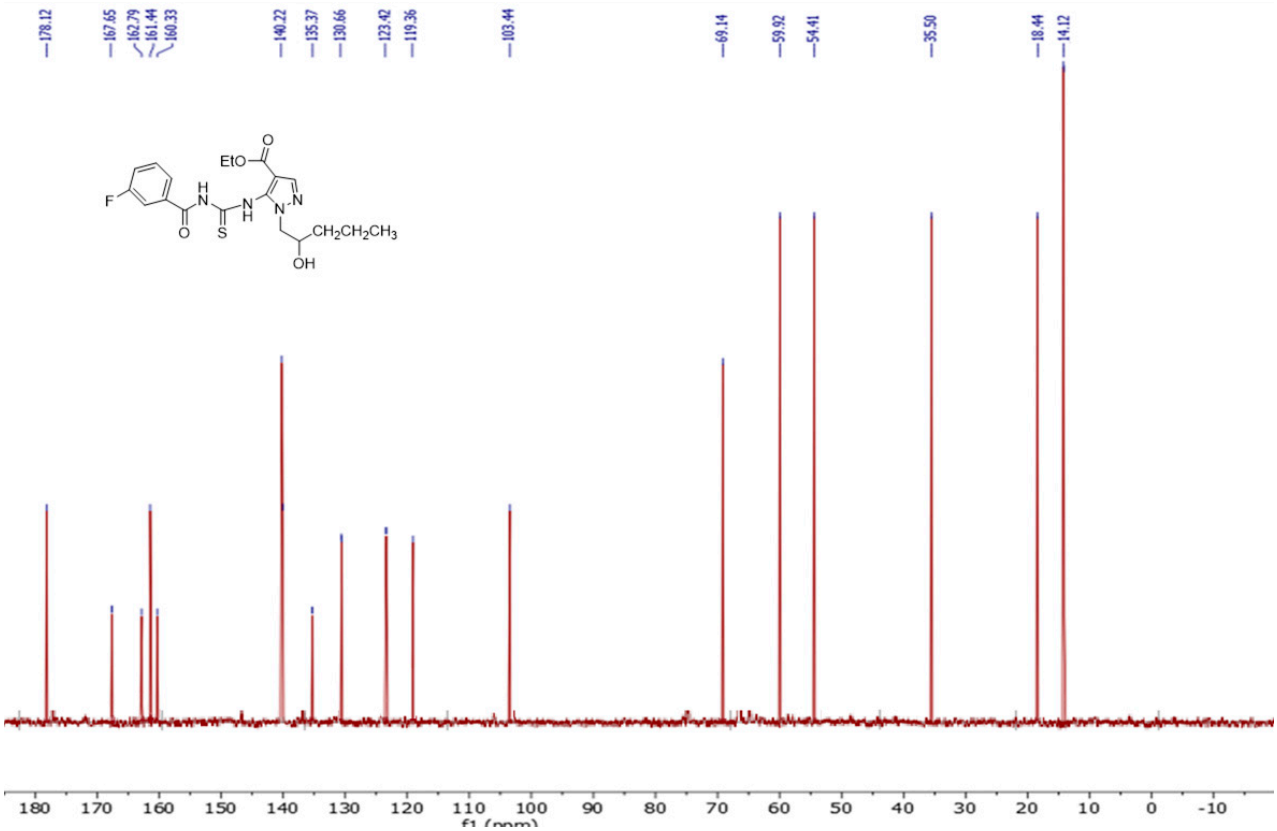

Figure S23:[1]H NMR (400 MHz) of compound **1l.**

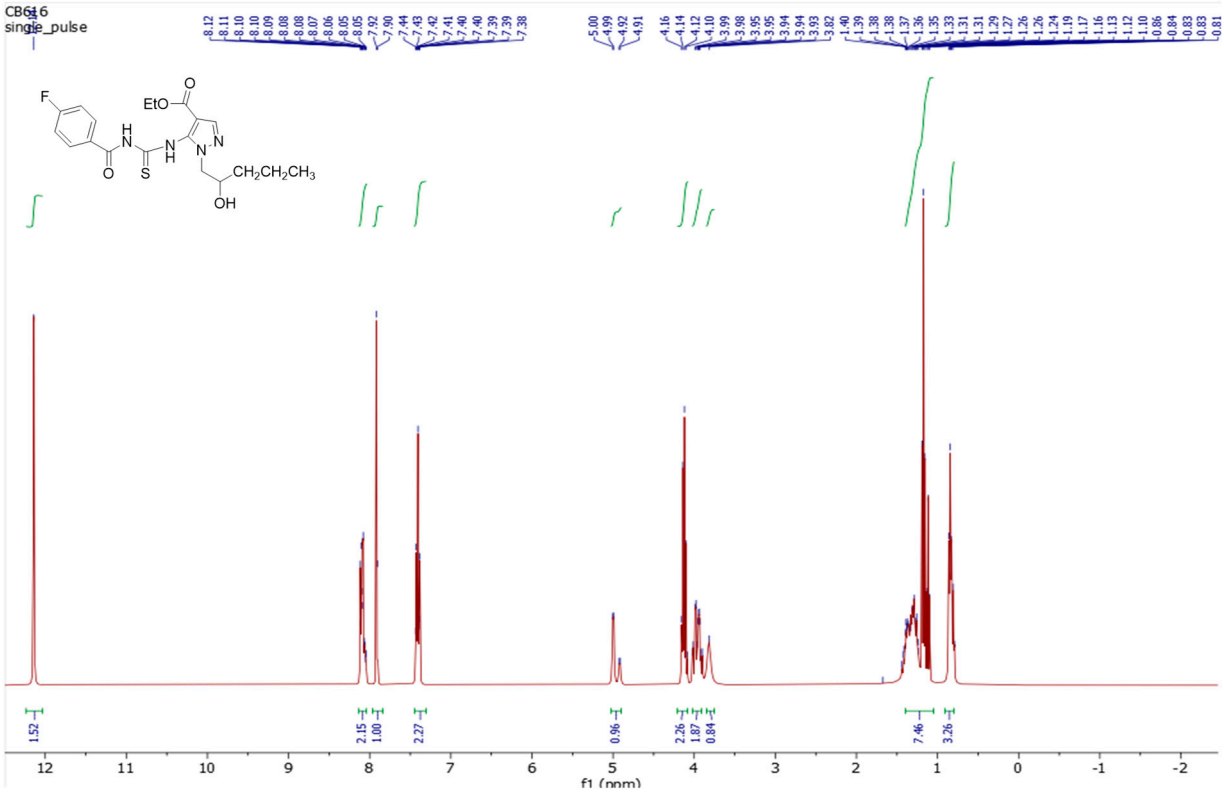

Figure S24: [13]C NMR (100 MHz) of compound **1l.**

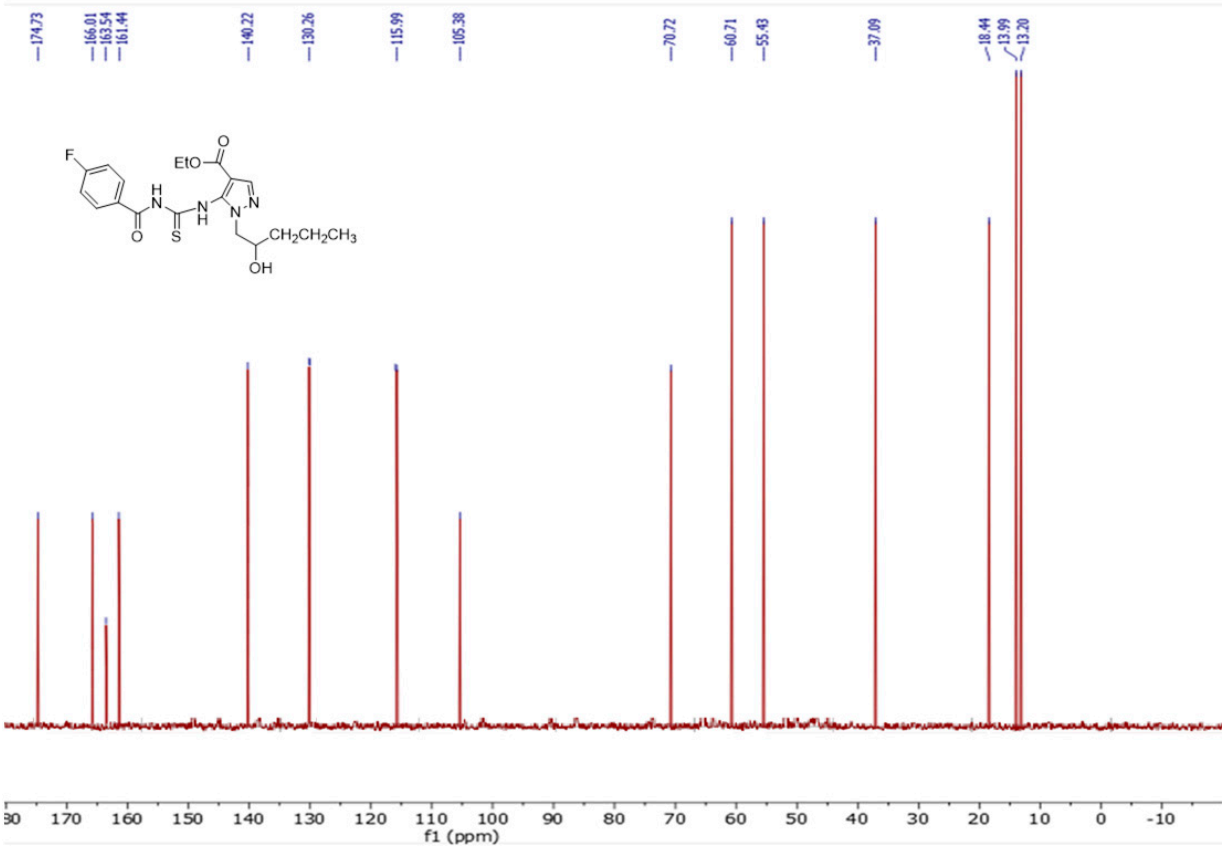

Figure S25:[1]H NMR (400 MHz) of compound **1m.**

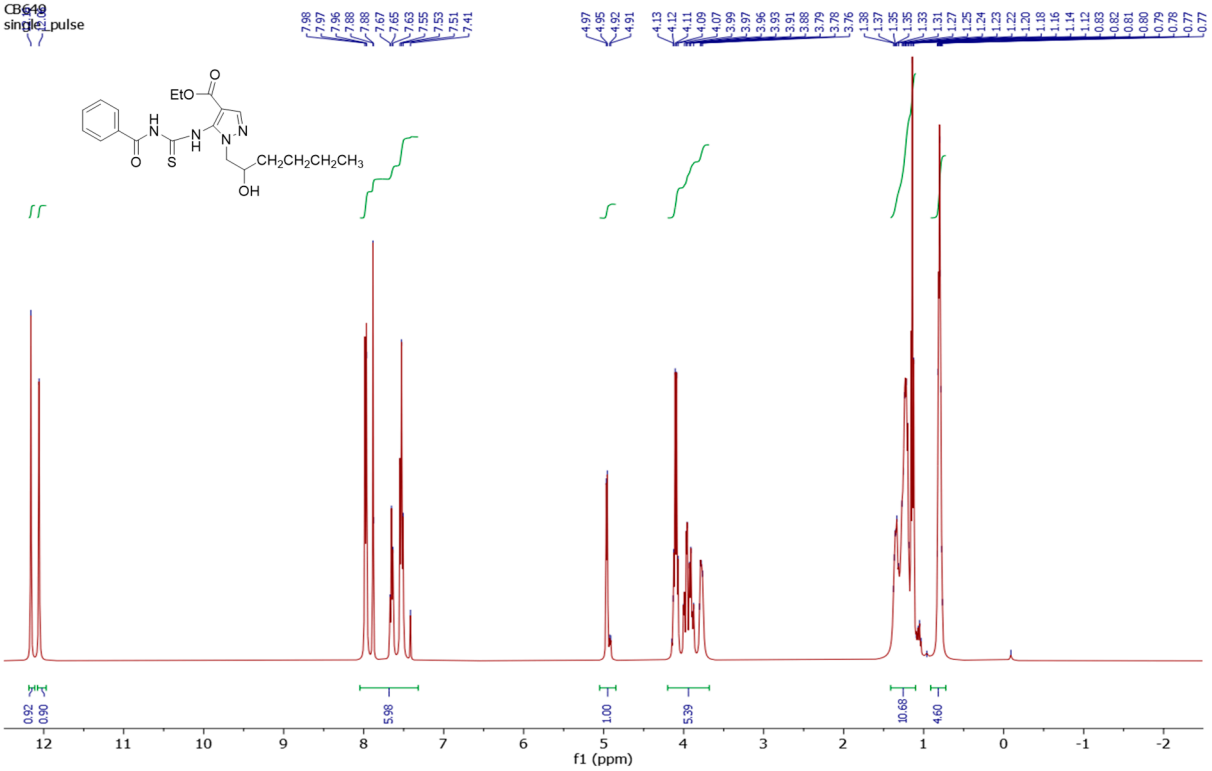

Figure S26: [13]C NMR (100 MHz) of compound **1m.**

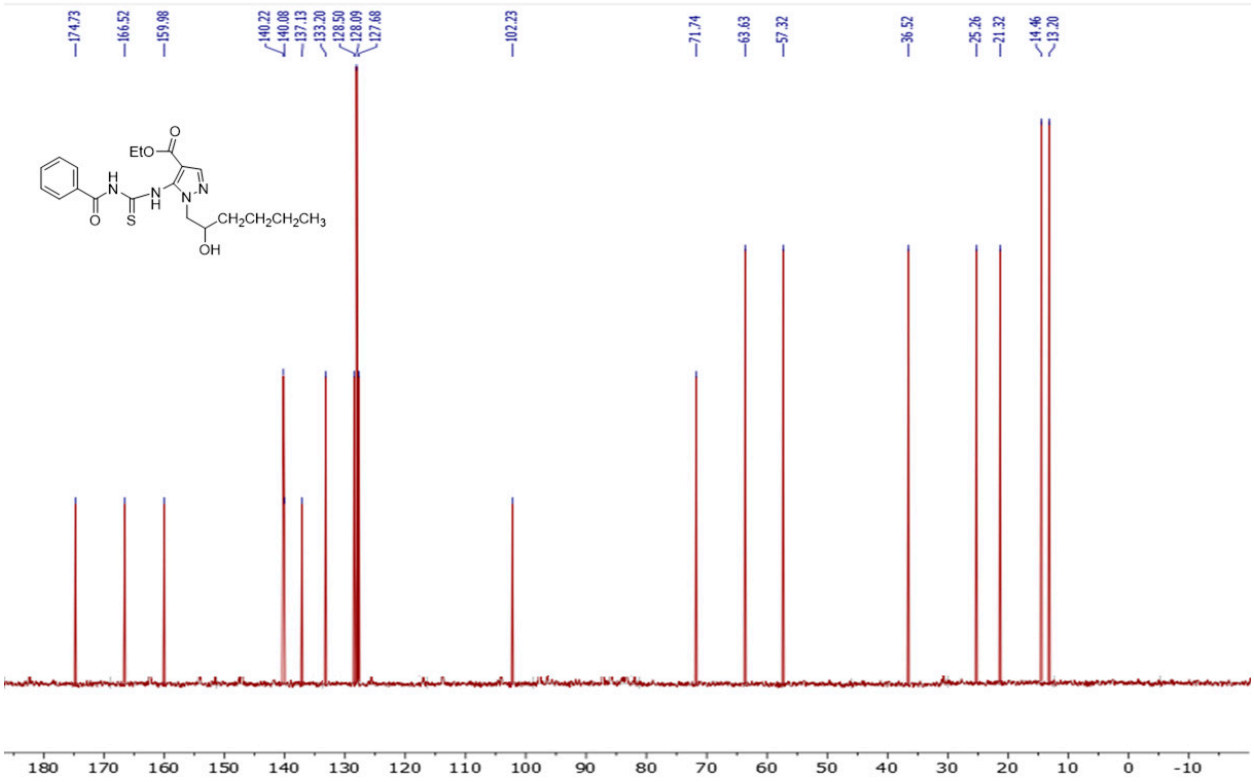

Figure S27:[1]H NMR (400 MHz) of compound **1n.**

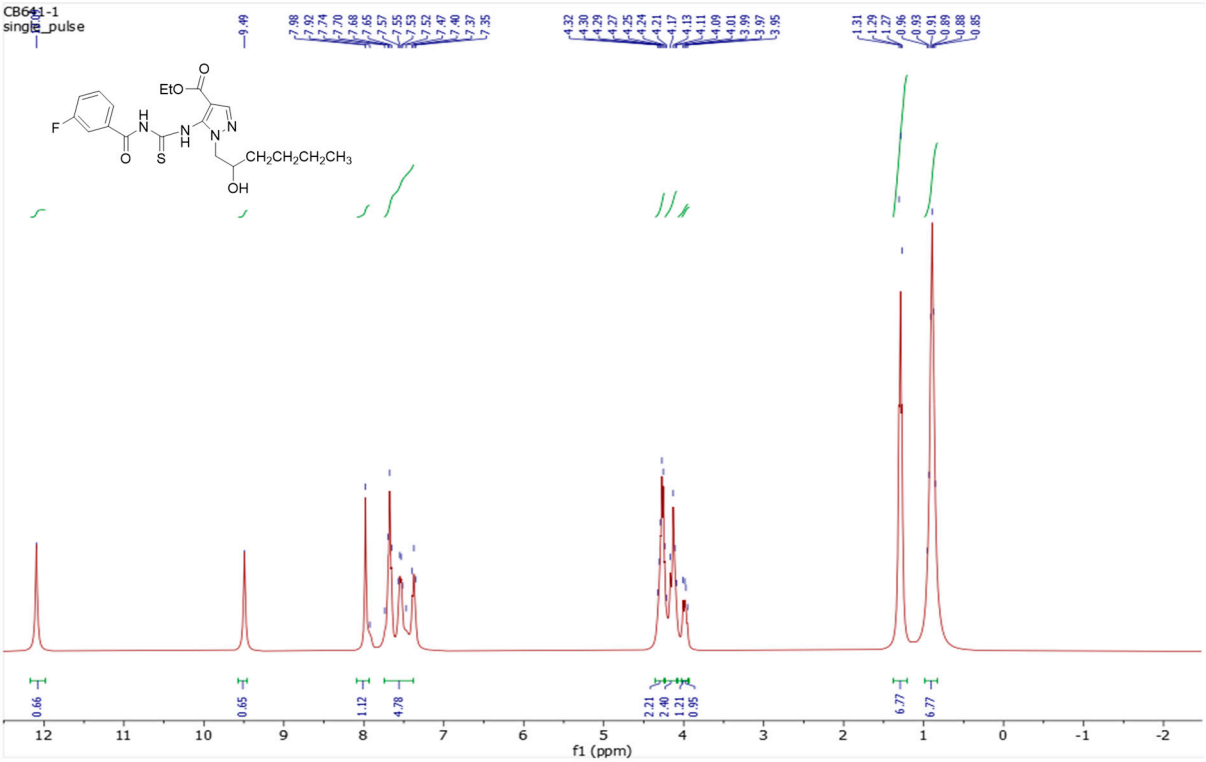

Figure S28: [13]C NMR (100 MHz) of compound **1n.**

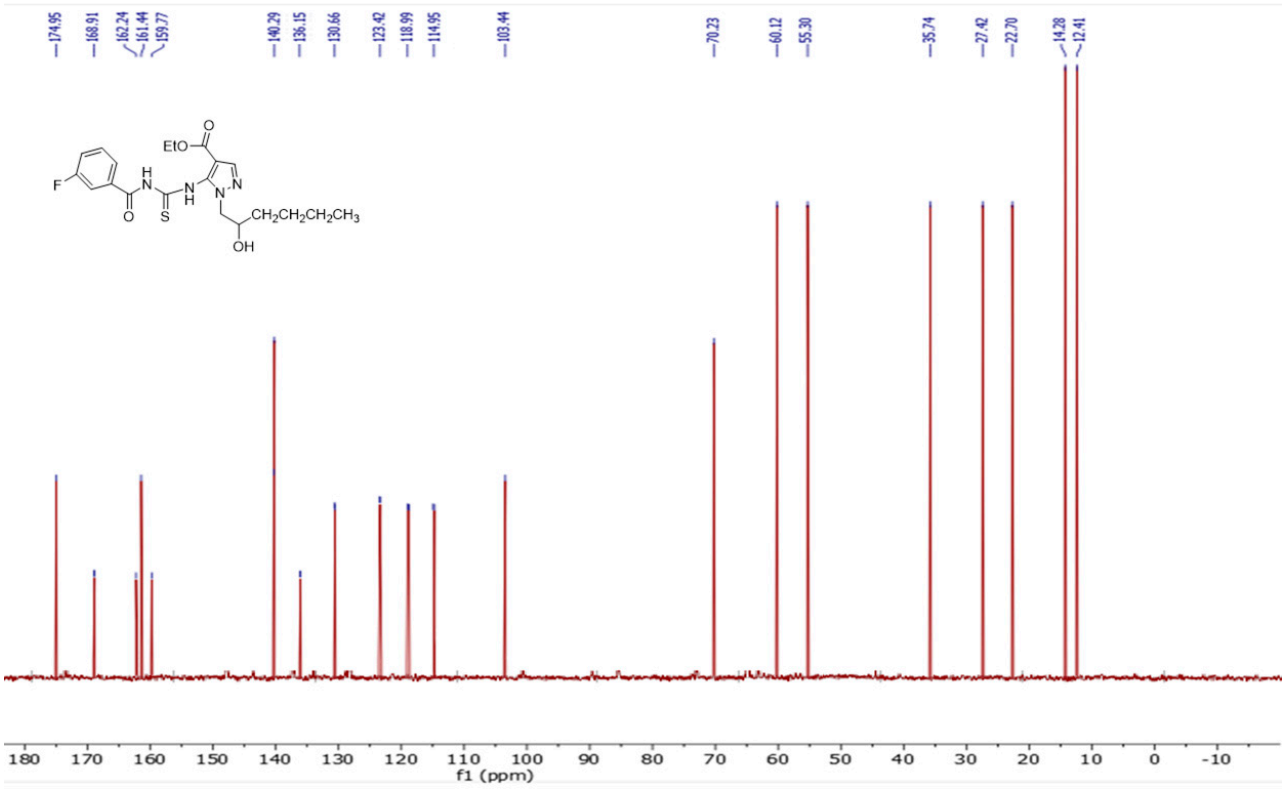

Figure S29:[1]H NMR (400 MHz) of compound **1o.**

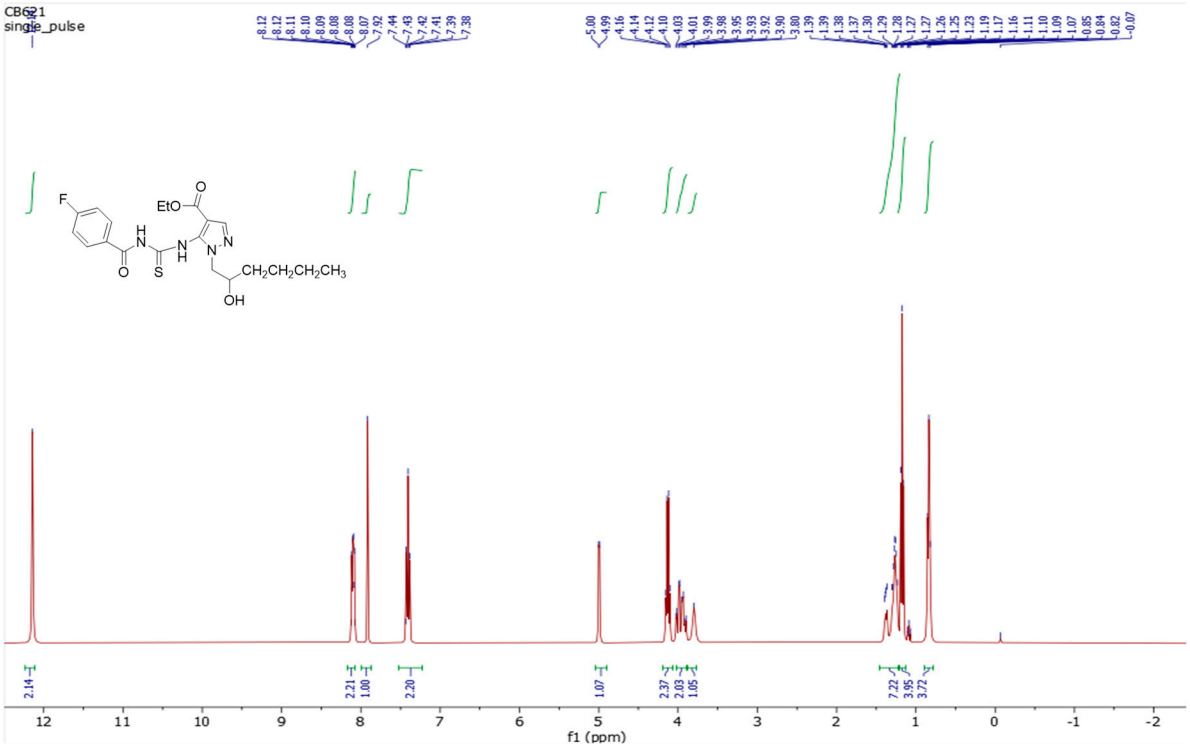

Figure S30: [13]C NMR (100 MHz) of compound **1o.**

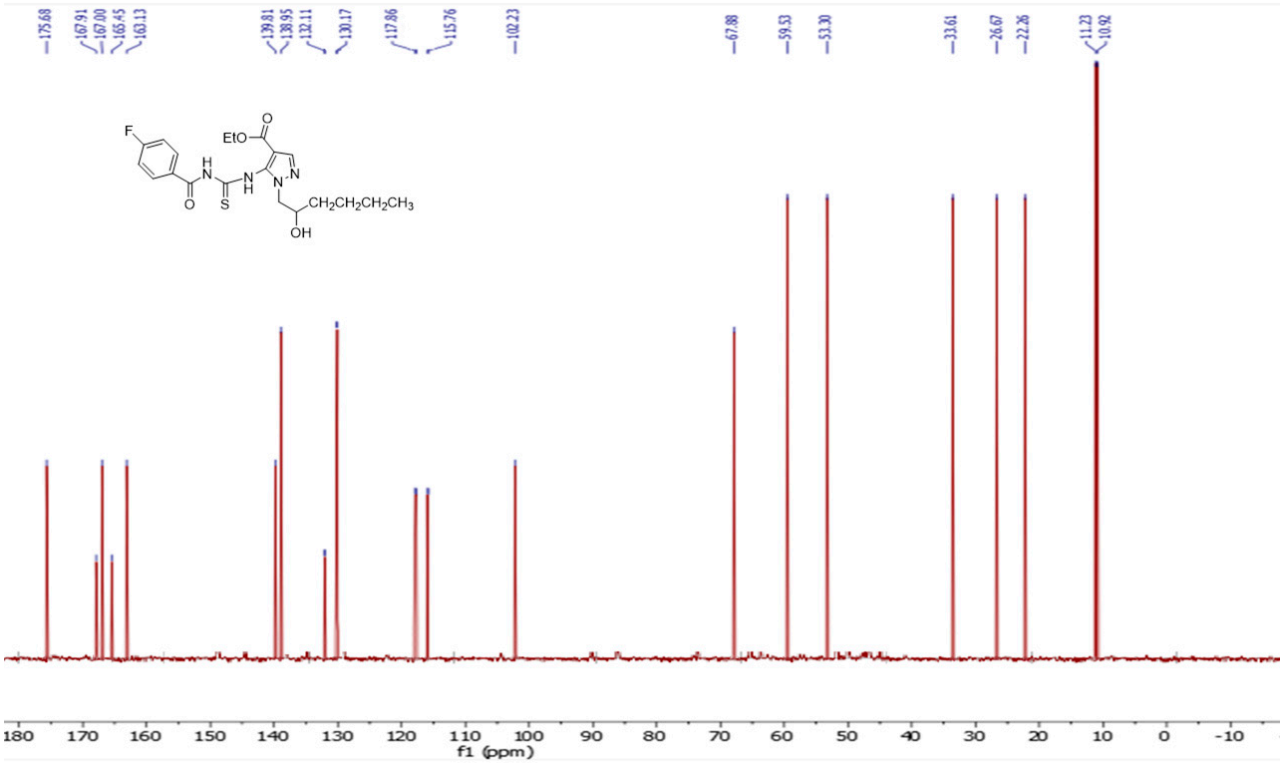

Figure S31:[1]H NMR (400 MHz) of compound **4d.**

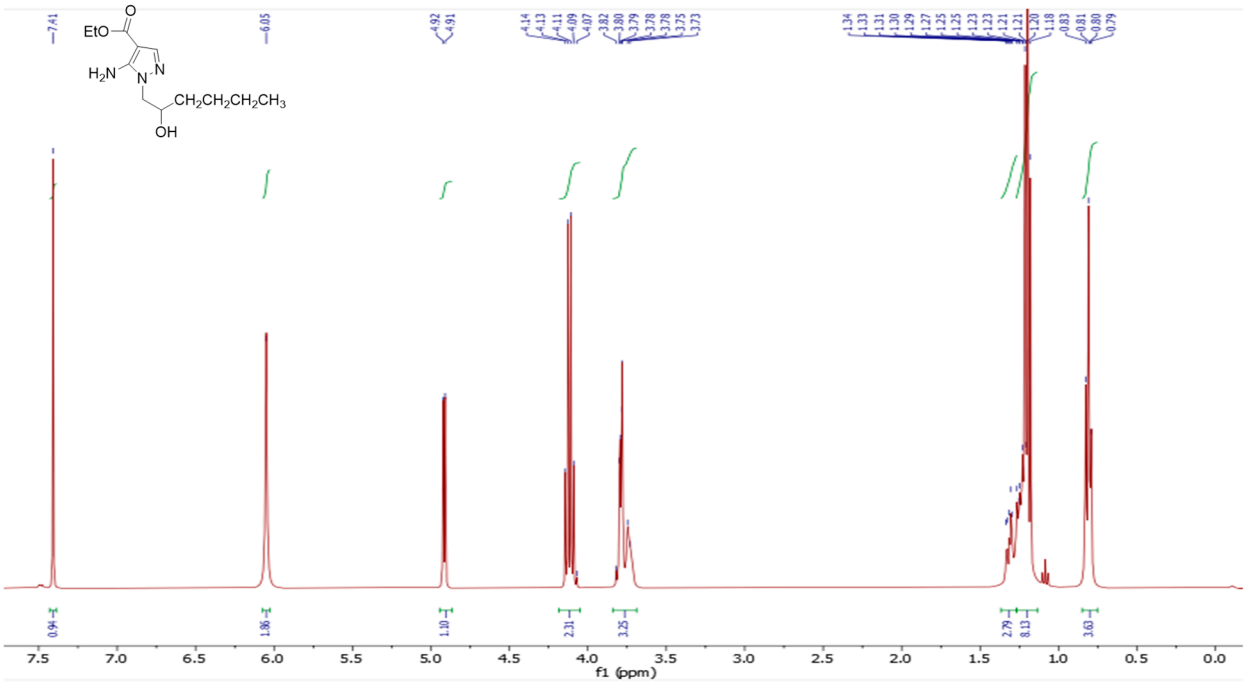

Figure S32: [13]C NMR (100 MHz) of compound **4d.**

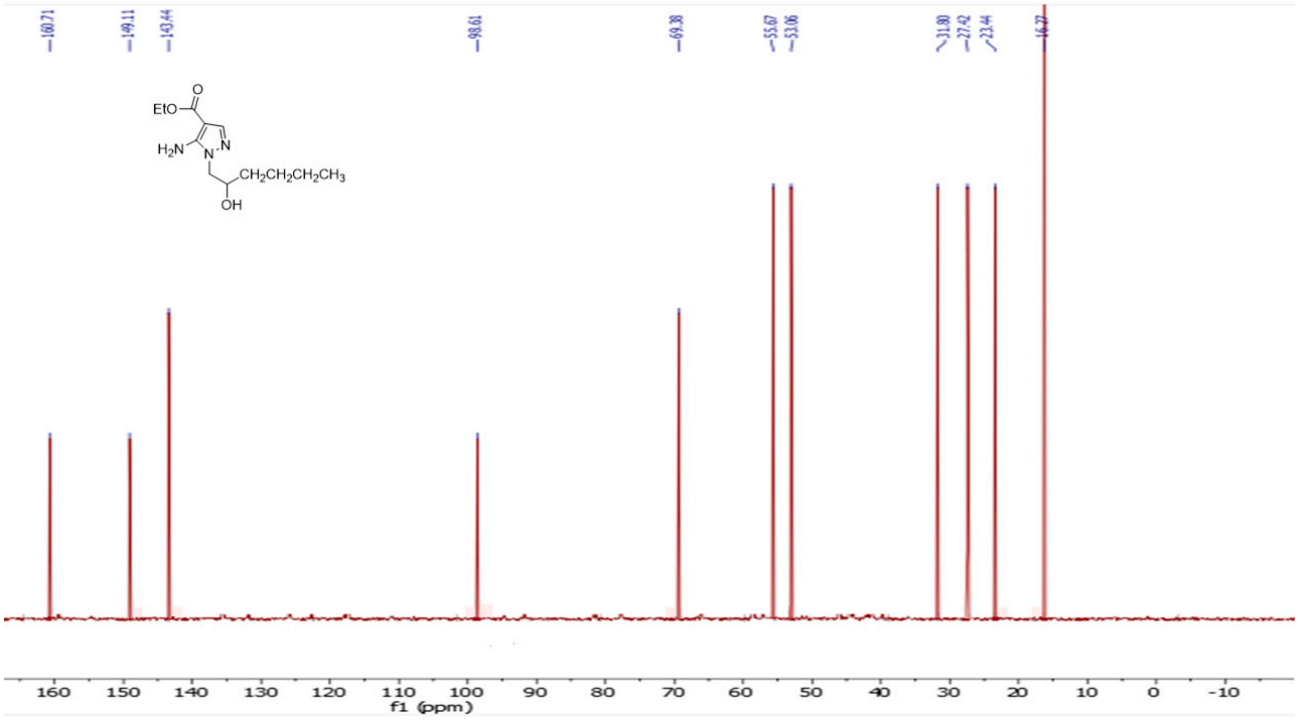

Figure S33: *BOILED-Egg* diagram for compounds **1a-o**

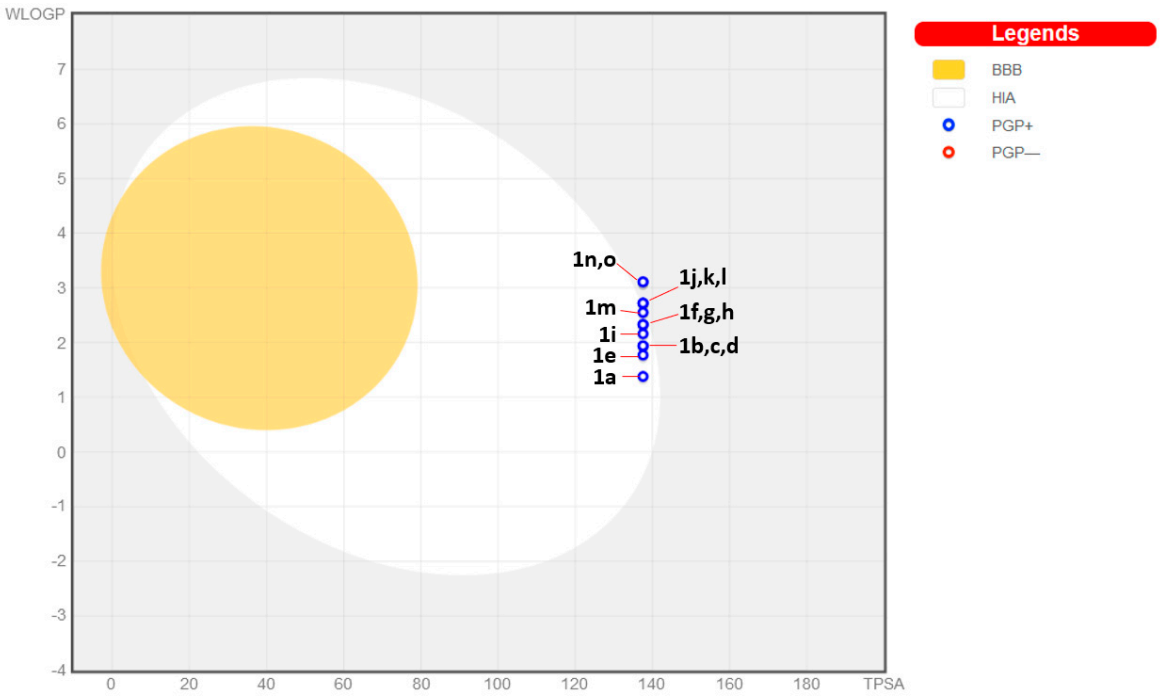

Figure S34: radar plot calculated for compounds **1a-o**