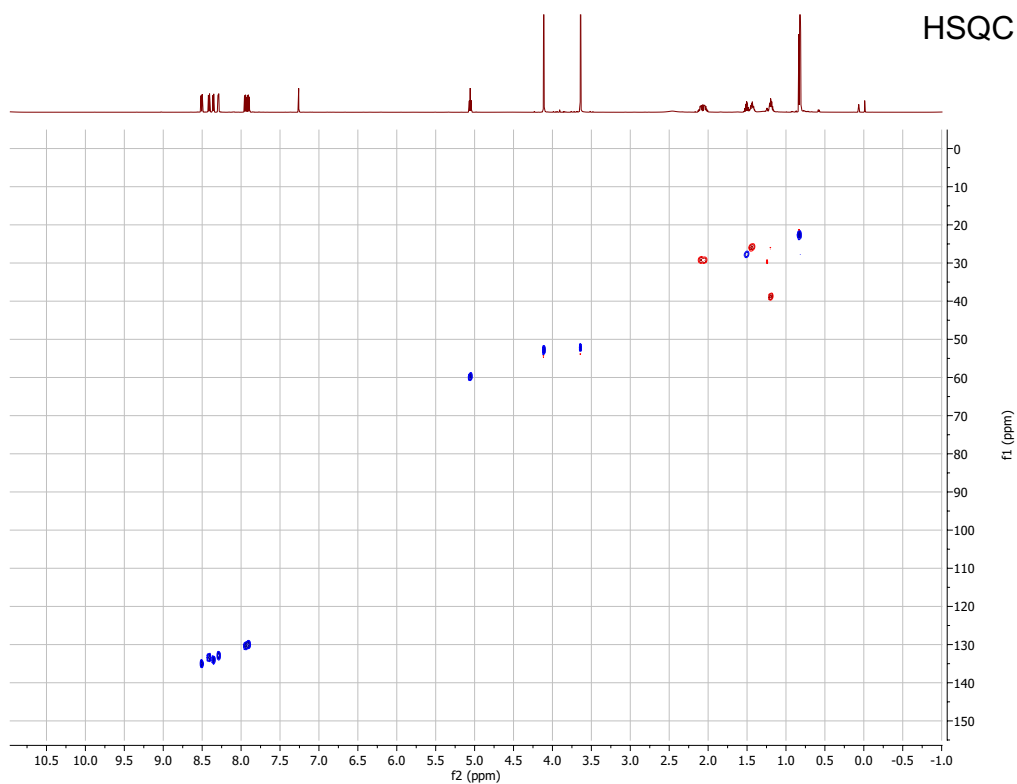
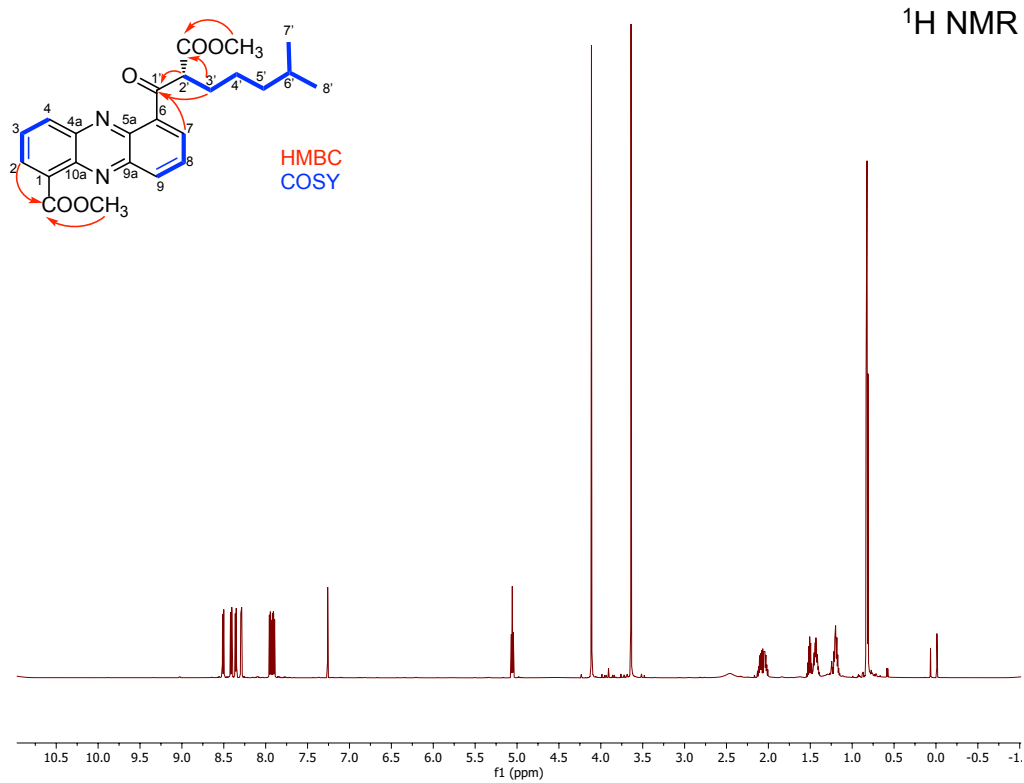


Data S1. NMR analysis and data for isolated streptophenazines, related to STAR methods isolation and characterization of streptophenazines and **Figures 1, 2** and **3**. All spectra recorded in CDCl₃ with TMS, 600 MHz. δ in ppm, J in Hz. Abbreviations: d = doublet, t = triplet, s = singlet, m = multiplet.

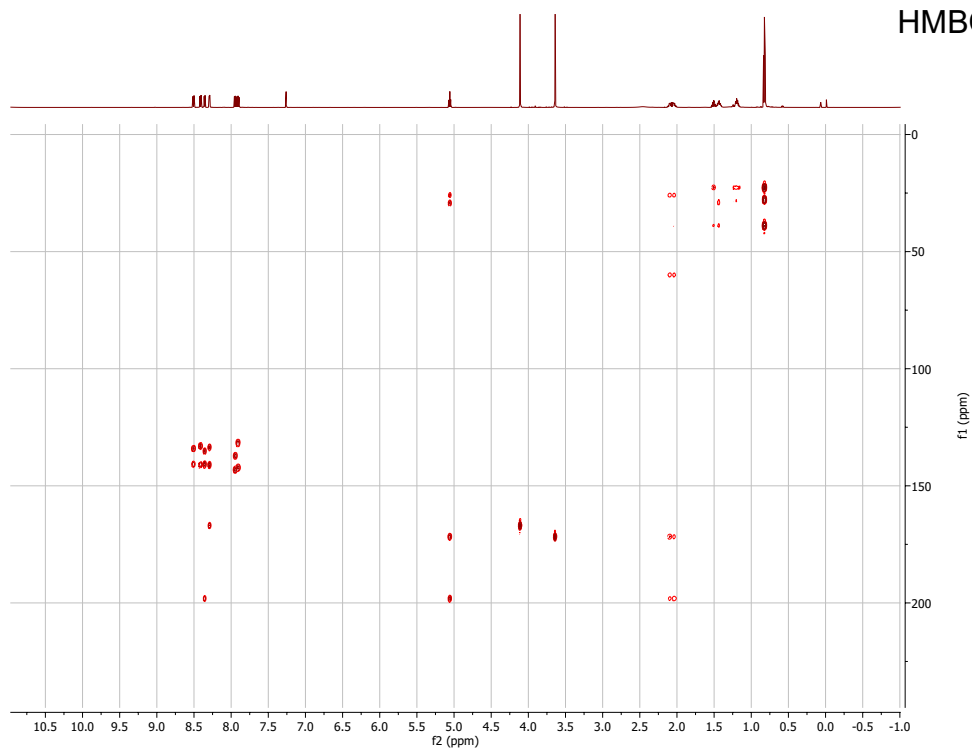
NMR spectroscopic data of compound **9** (oxo-streptophenazine A).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.5			
2	132.9	8.29 dd (1.45, 6.89)	4, 10a, 1-COOCH₃	3
3	129.9	7.91 dd (6.87, 8.75)	1, 4a	2, 4
4	133.5	8.41 dd (1.42, 8.69)	2, 10a	3
4a	142.1			
5a	140.9			
6	137.1			
7	133.9	8.36 dd (1.45, 6.99)	1', 9, 5a	8
8	130.1	7.94 dd (6.95, 8.71)	6, 9a	7, 9
9	135.1	8.51 dd (1.45, 8.68)	7, 5a	8
9a	142.9			
10a	141			
1'	198.4			
2'	59.9	5.06 t (7.02, 7.02)	4', 3', 2'-COOCH₃ , 1'	3'
3'	29.12	2.09 and 2.05	4', 5', 2', 2'b, 1'	2', 3'
4'	25.82	1.44	3', 5', 2'	5'
5'	38.81	1.2	7', 8', 3', 6', 4'	4', 6'
6'	27.83	1.51 dt (6.68, 6.68, 13.39)	7' and 8', 4', 5'	7', 8'
7'	22.35	0.82 t (6.88, 6.88)	8', 6', 5'	6'
8'	22.35	0.82 t (6.88, 6.88)	7', 6', 5'	6'
1-COOCH₃	167.1			
1-COOCH₃	52.8	4.11 s	1-COOCH₃	
2'-COOCH₃	171.5			
2'-COOCH₃	52.2	3.64, s	2'-COOCH₃	

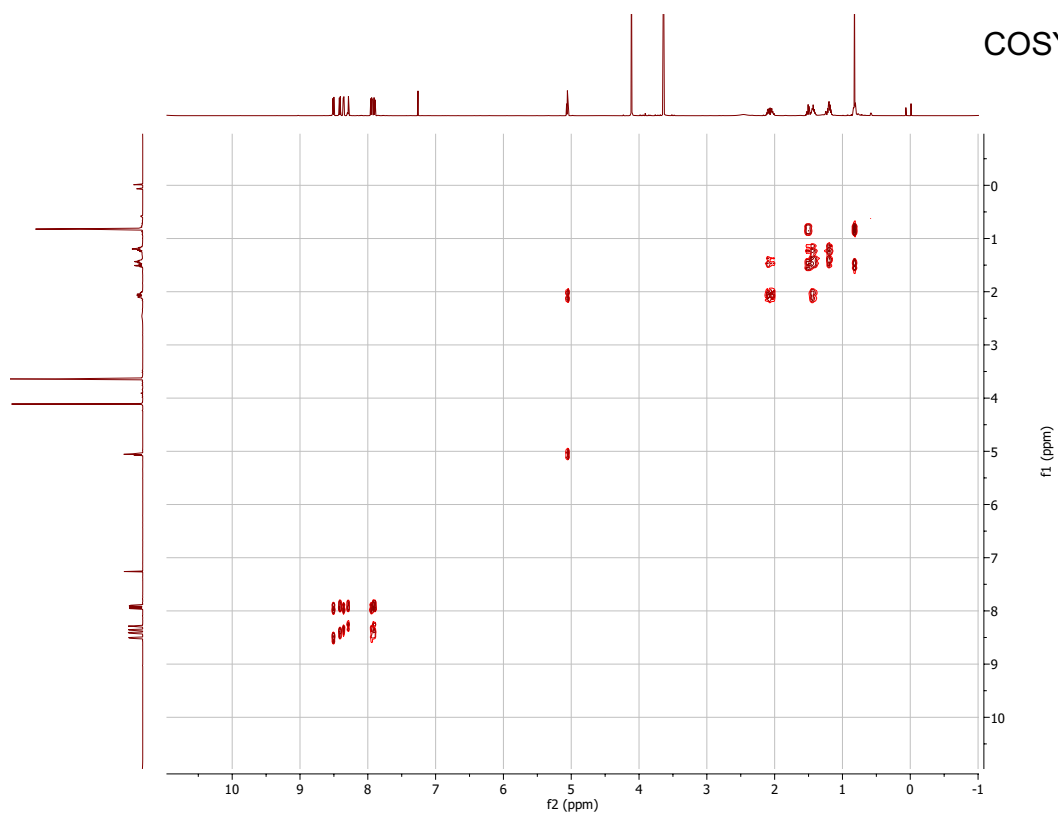
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **9** (oxo-streptophenazine A).



HMBC



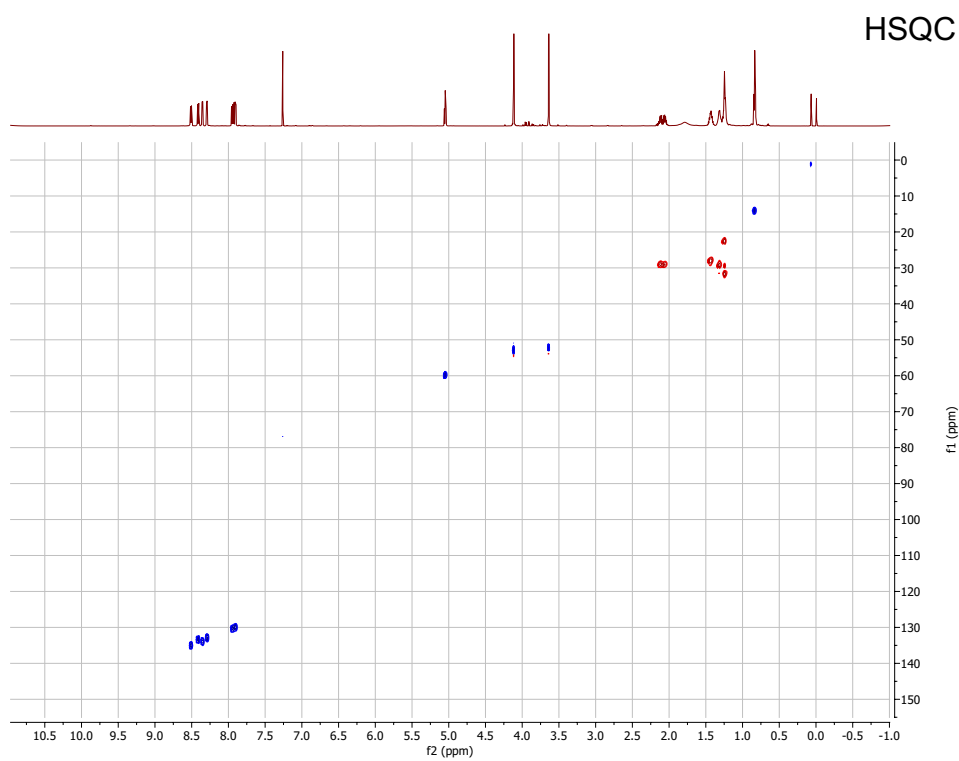
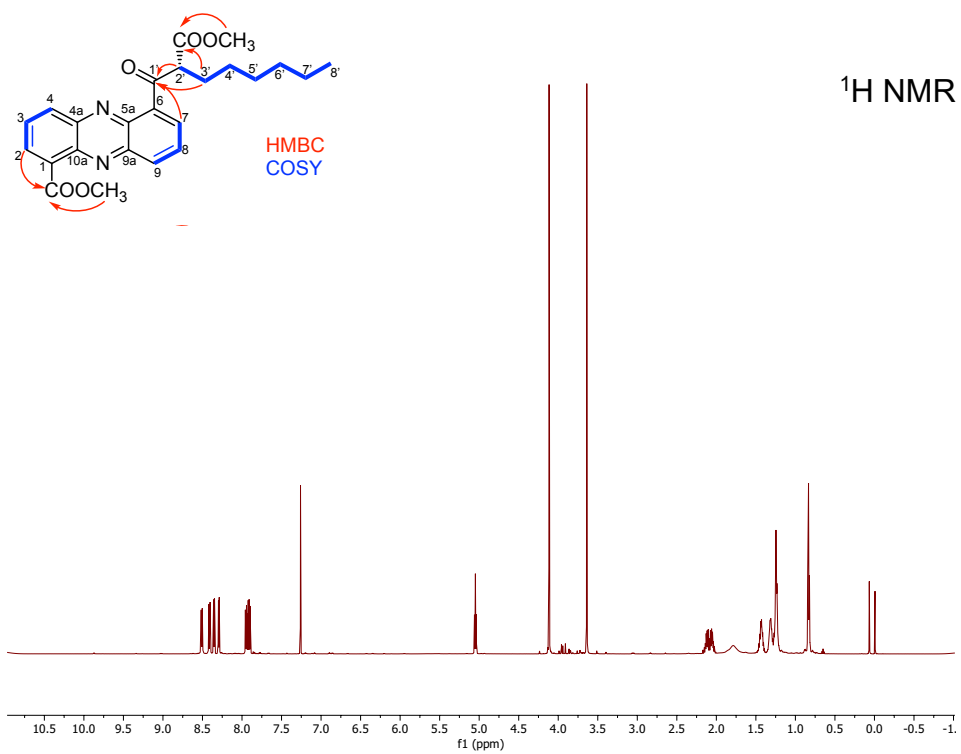
COSY



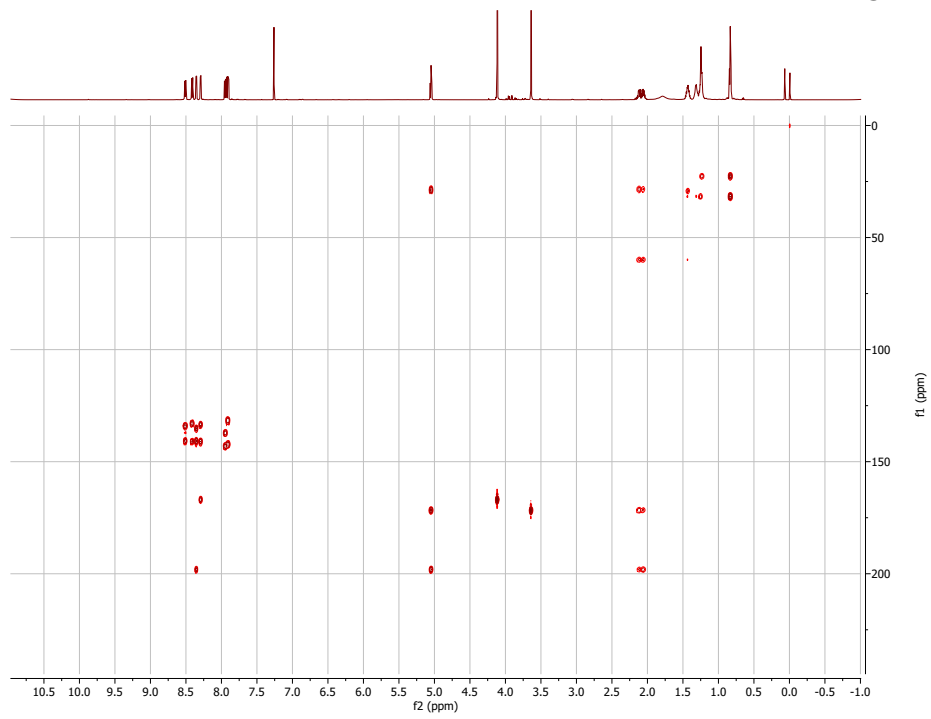
NMR spectroscopic data of compound **10** (oxo-streptophenazine B).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.6			
2	132.9	8.29 dd (1.45, 6.87)	4, 10a, 1-COOCH₃	3
3	129.8	7.91 dd (6.97, 8.73)	1, 4a	4, 2
4	133.5	8.41 dd (1.46, 8.74)	2, 10a	3
4a	142.1			
5a	140.7			
6	137.1			
7	133.8	8.36 dd (1.36, 6.88)	1', 9, 5a	8
8	130.2	7.94 dd (6.97, 8.69)	6, 9a	9, 7
9	134.9	8.51 dd (1.46, 8.77)	7, 5a	8
9a	142.9			
10a	141			
1'	198.3			
2'	59.7	5.05 t (7.03, 7.03)	4', 2'-COOCH₃ , 1'	3'
3'	29.1	2.11, 2.06	4', 2', 2'-COOCH₃ , 1'	2', 4'
4'	28.1	1.44	5', 3', 6', 2'	5'
5'	29.3	1.31 dtd (5.47, 7.81, 8.08, 10.35)	3', 6', 7'	4', 5'
6'	31.7	1.24	4', 7', 8'	5', 7'
7'	22.6	1.25	5', 6', 8'	8', 6'
8'	14	0.83 t (6.93, 6.93)	6', 7'	7'
1-COOCH₃	167.1			
1-COOCH₃	52.8	4.12 s	1-COOCH₃	
2'-COOCH₃	171.5			
2'-COOCH₃	52.1	3.64, s	2'-COOCH₃	

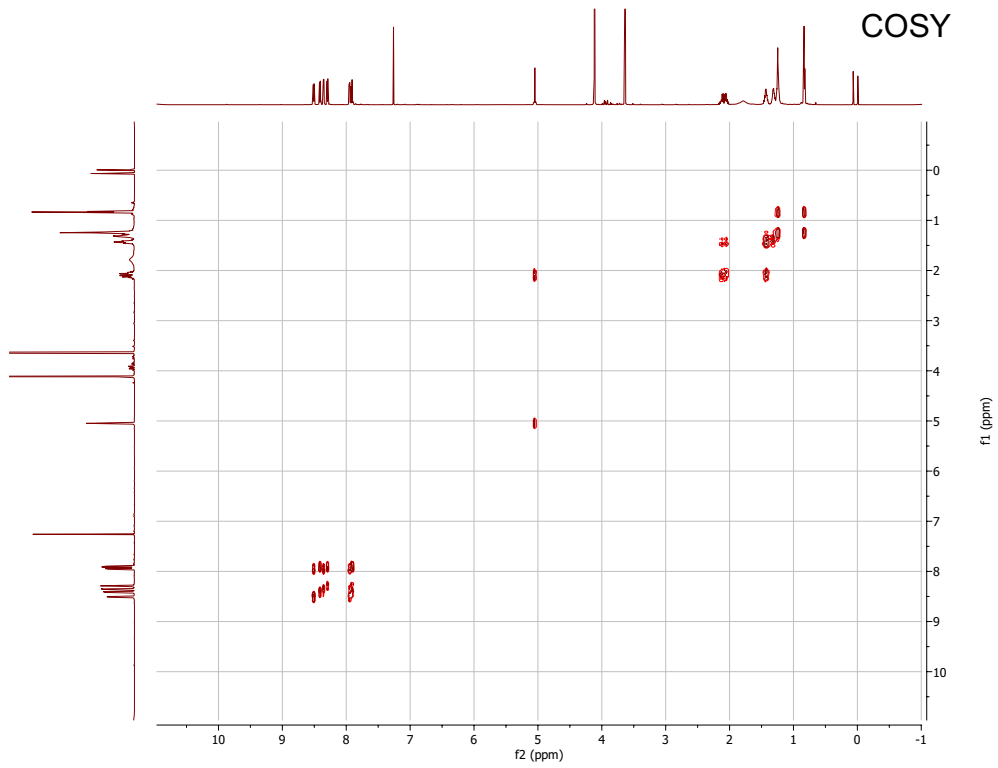
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **10** (oxo-streptophenazine B).



HMBC



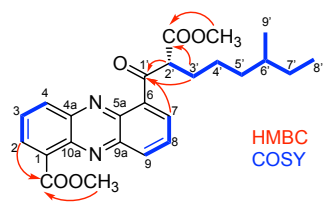
COSY



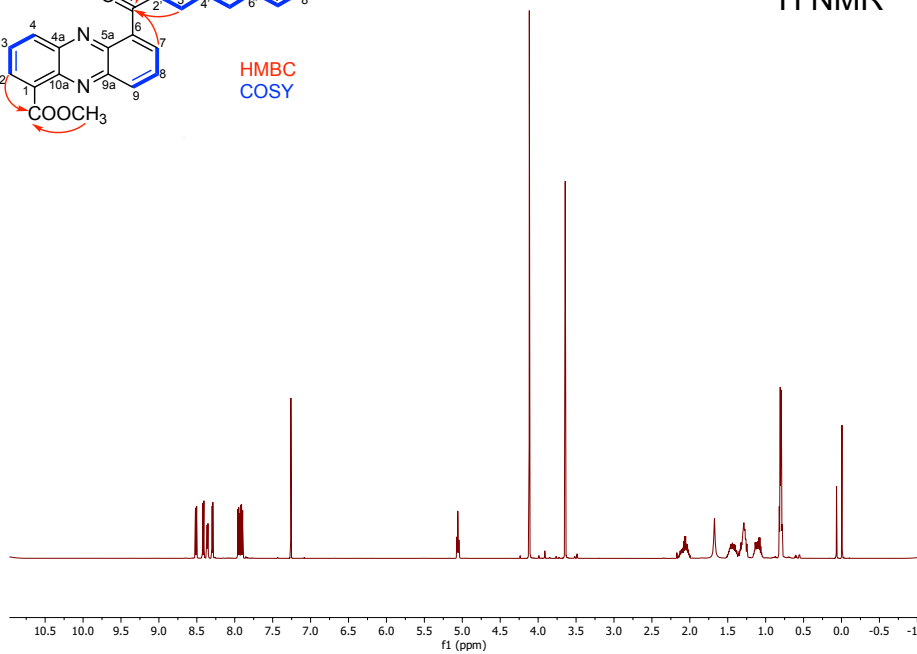
NMR spectroscopic data of compound **11** (oxo-streptophenazine G).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.2			
2	132.89	8.29, dd (144, 6.91)	4, 10a, 1-COOCH₃	3
3	129.96	7.91, ddd (6.87, 8.72)	1, 4a	2, 4
4	133.36	8.41, dd (1.46, 8.71)	2, 10a	3
4a	141.7			
5a	140.96			
6	137.1			
7	133.93	8.36, ddd (1.45, 2.82, 6.98)	9, 5a, 1'	8
8	130.3	7.94, ddd (6.97, 8.72)	6, 9a	7, 9
9	135.11	8.51, dd (1.48, 8.67)	7, 5a	8
9a	143.1			
10a	141.1			
1'	198.2			
2'	60.01	5.06, td, (2.10, 7.04, 7.04)	4', 3', 2'-COOCH₃ , 1'	3'
3'	29.31	2.08, 2.05	4', 5', 2', 2'-COOCH₃ , 1	2', 4'
4'	25.51	1.44, m	6', 5', 2', 3'	3', 5'
5'	36.25	1.13 1.32	8', 9', 4', 3', 6'	4', 6', 9'
6'	34.2	1.29	9', 7', 4'	9', 5', 7'
7'	29.41	1.08, 1.28	5', 6', 9'	5', 6', 8'
8'	11.36	0.81	5', 6', 7', 8'	7'
9'	19.21	0.79	5', 6', 7'	6'
1-COOCH₃	167.3			
1-COOCH₃	52.8	4.11, s	1-COOCH₃	-
2'-COOCH₃	171.8			
2'-COOCH₃	52.1	3.64, d (0.99)	2'-COOCH₃	-

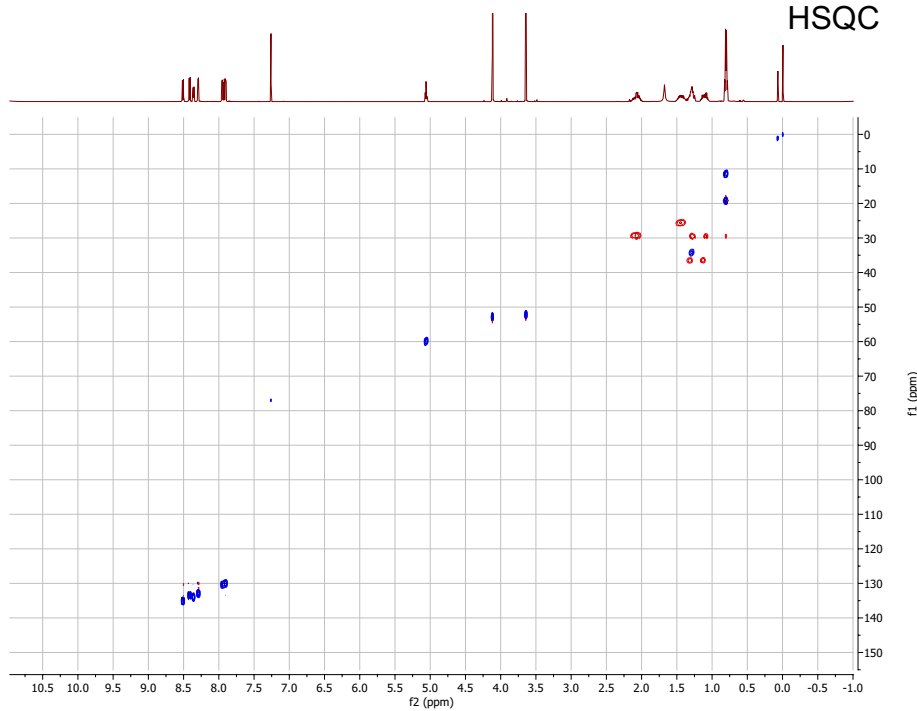
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **11** (oxo-streptophenazine G).



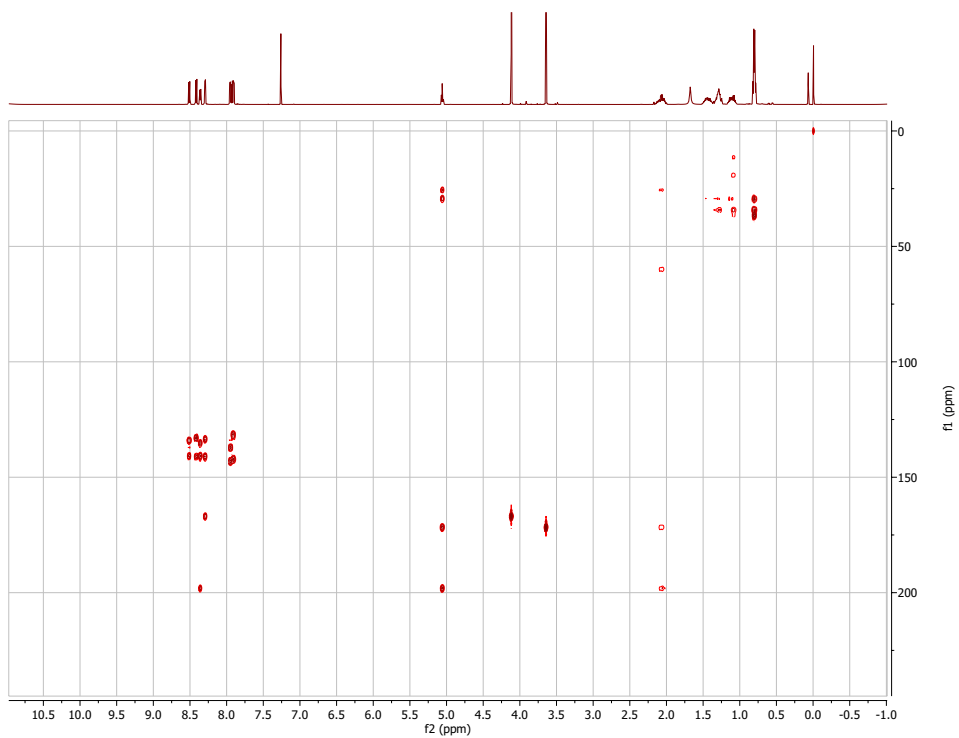
^1H NMR



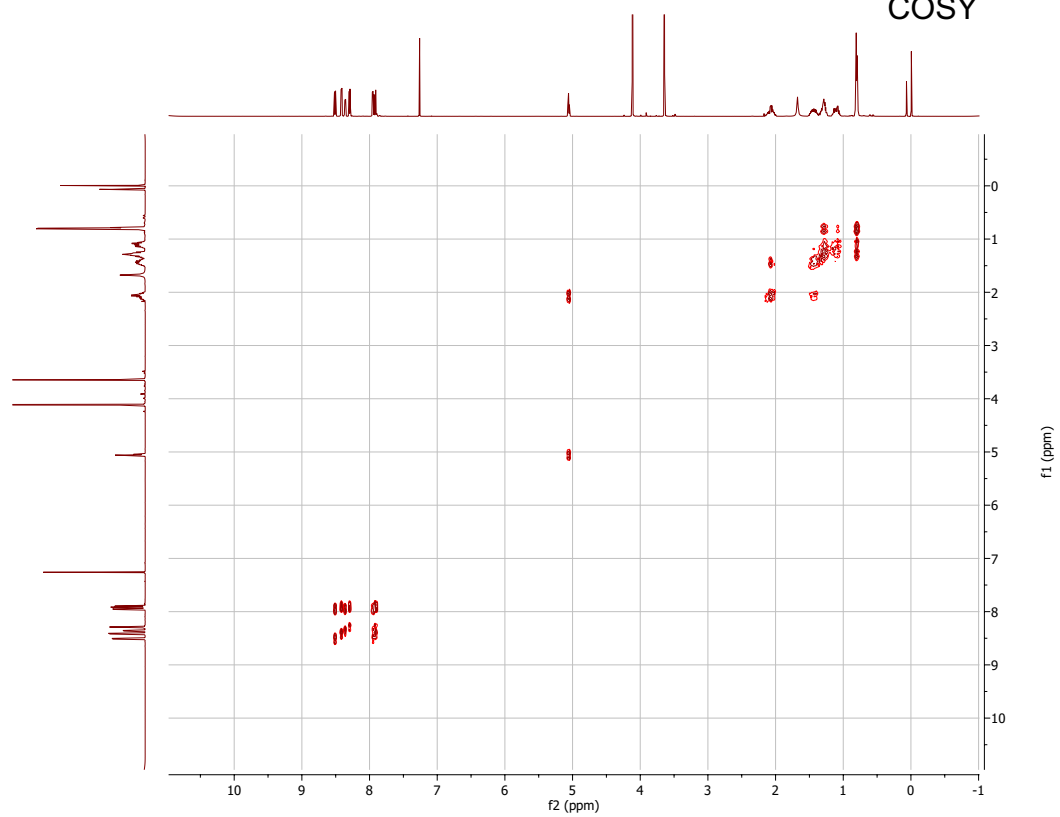
HSQC



HMBC



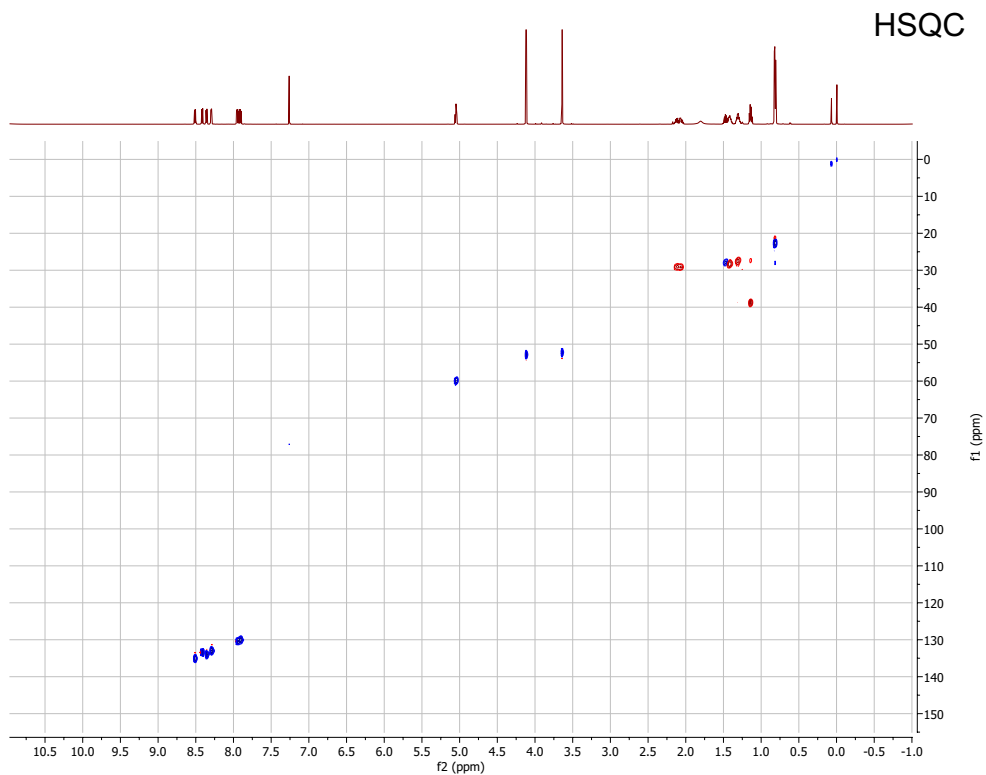
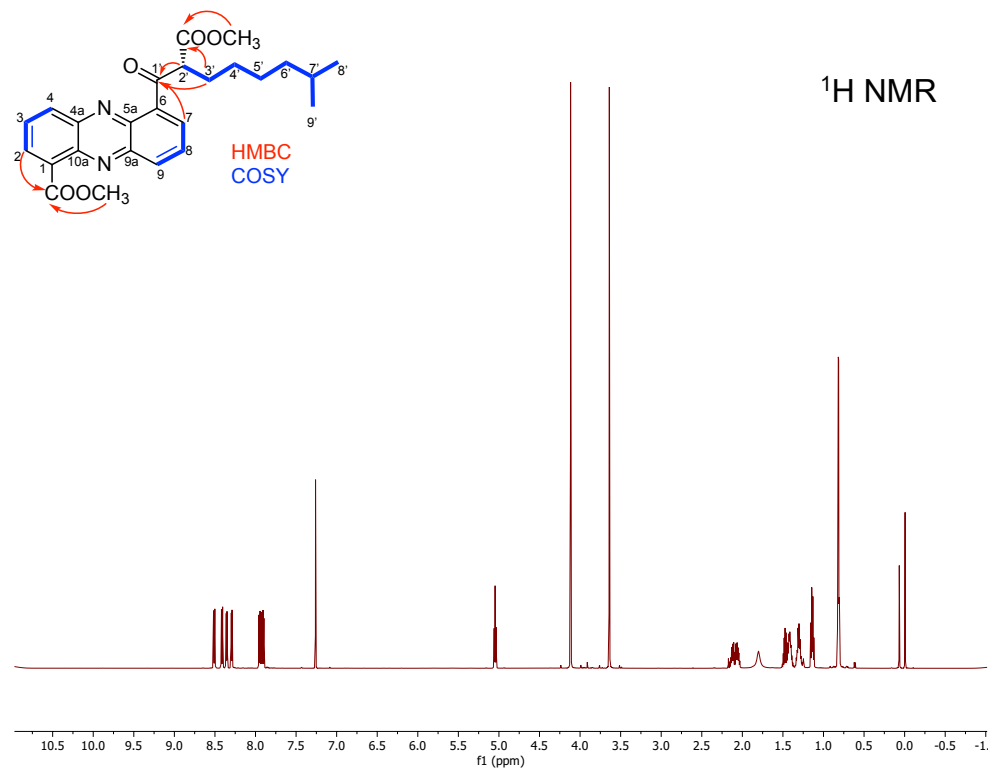
COSY

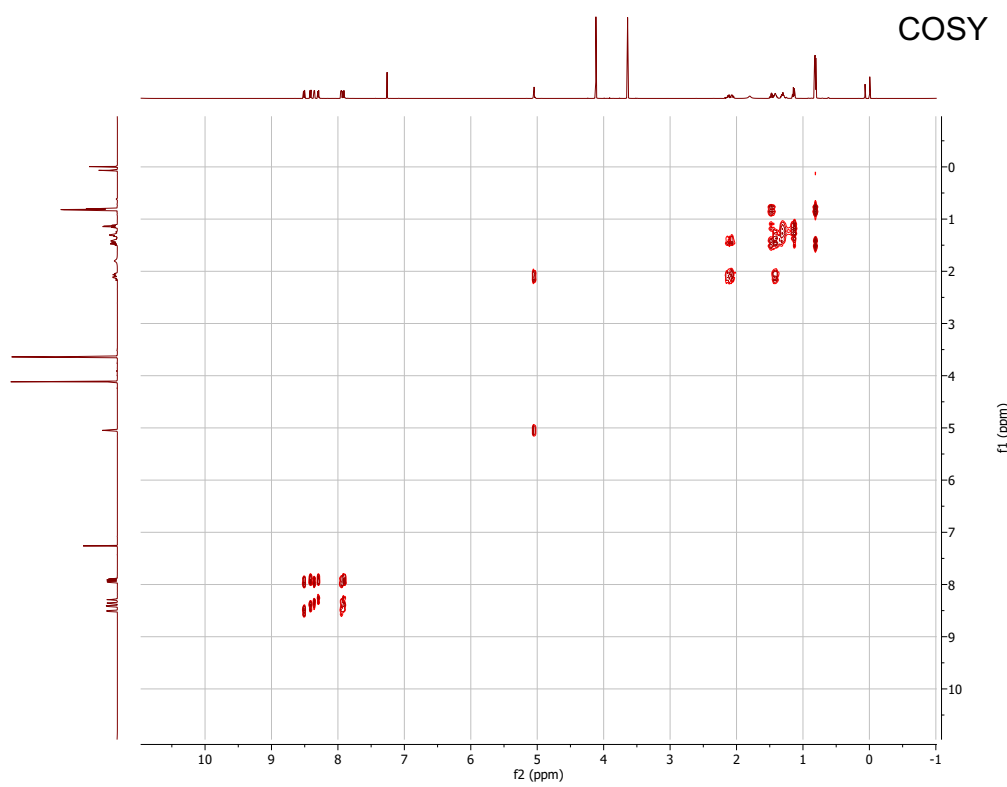
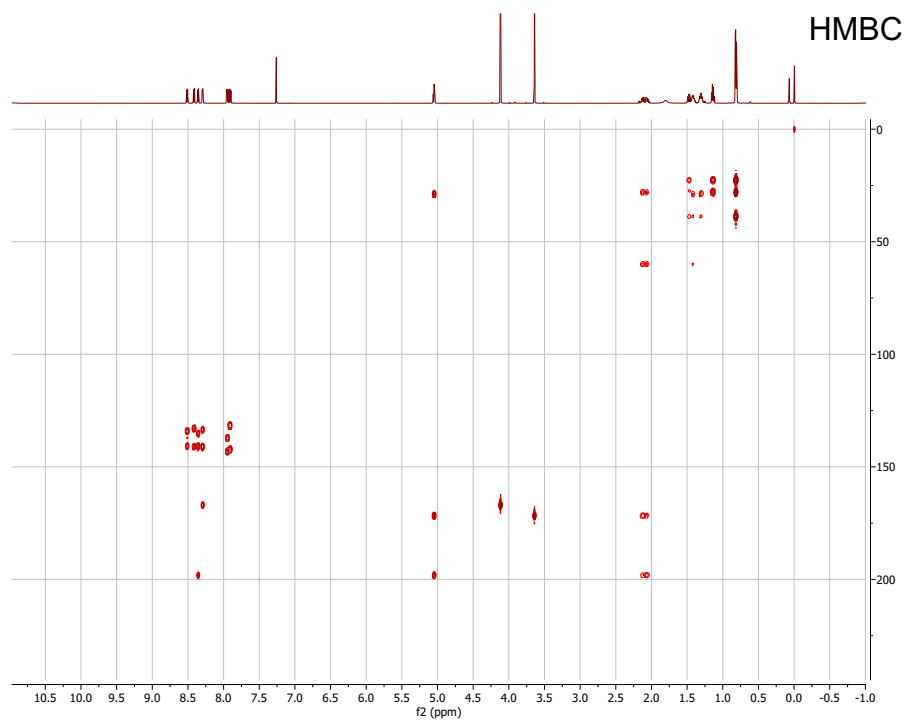


NMR spectroscopic data of compound **12** (oxo-streptophenazine F).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.6			
2	132.9	8.29, dd (1.43, 6.93)	4, 10a, 1-COOCH₃	3
3	129.96	7.91, dd (6.89, 8.74)	1, 4a	2, 4
4	133.4	8.41, dd (1.42, 8.77)	2, 10a	3
4a	142.3			
5a	140.9			
6	136.9			
7	133.9	8.36, dd (1.45, 6.95)	9, 5a, 1'	8
8	130.3	7.94, dd (6.94, 8.69)	6, 9a	7, 9
9	135.1	8.51, dd (1.45, 8.67)	7, 5a	8
9a	143			
10a	140.6			
1'	198.2			
2'	59.9	5.05, t (7.02, 7.02)	4', 3', 1', 2'-COOCH₃	3'
3'	29	2.09, m	1', 2', 5', 2'-COOCH₃	2', 4'
4'	28.2	1.41	2', 3', 6'	3', 5'
5'	27.4	1.3	6', 7'	4', 6'
6'	38.6	1.14 dt (6.94, 6.94, 8.37)	8', 9'), 4'	5', 7'
7'	27.9	1.48 dt (6.73, 6.73, 13.50)	8', 9', 5', 6'	6', 8'
8'	22.5	0.82 dd (4.02, 6.61)	9', 7', 6'	7'
9'	22.5	0.82 dd (4.02, 6.61)	8', 7', 6'	7'
1-COOCH₃	167.2			
1-COOCH₃	52.8	4.12, s	1-COOCH₃	
2'-COOCH₃	171.8			
2'-COOCH₃	52.1	3.64, s	2'-COOCH₃	

^1H , HSQC, HMBC, and COSY NMR and key HMBC and COSY correlations of compound **12** (oxo-streptophenazine F).

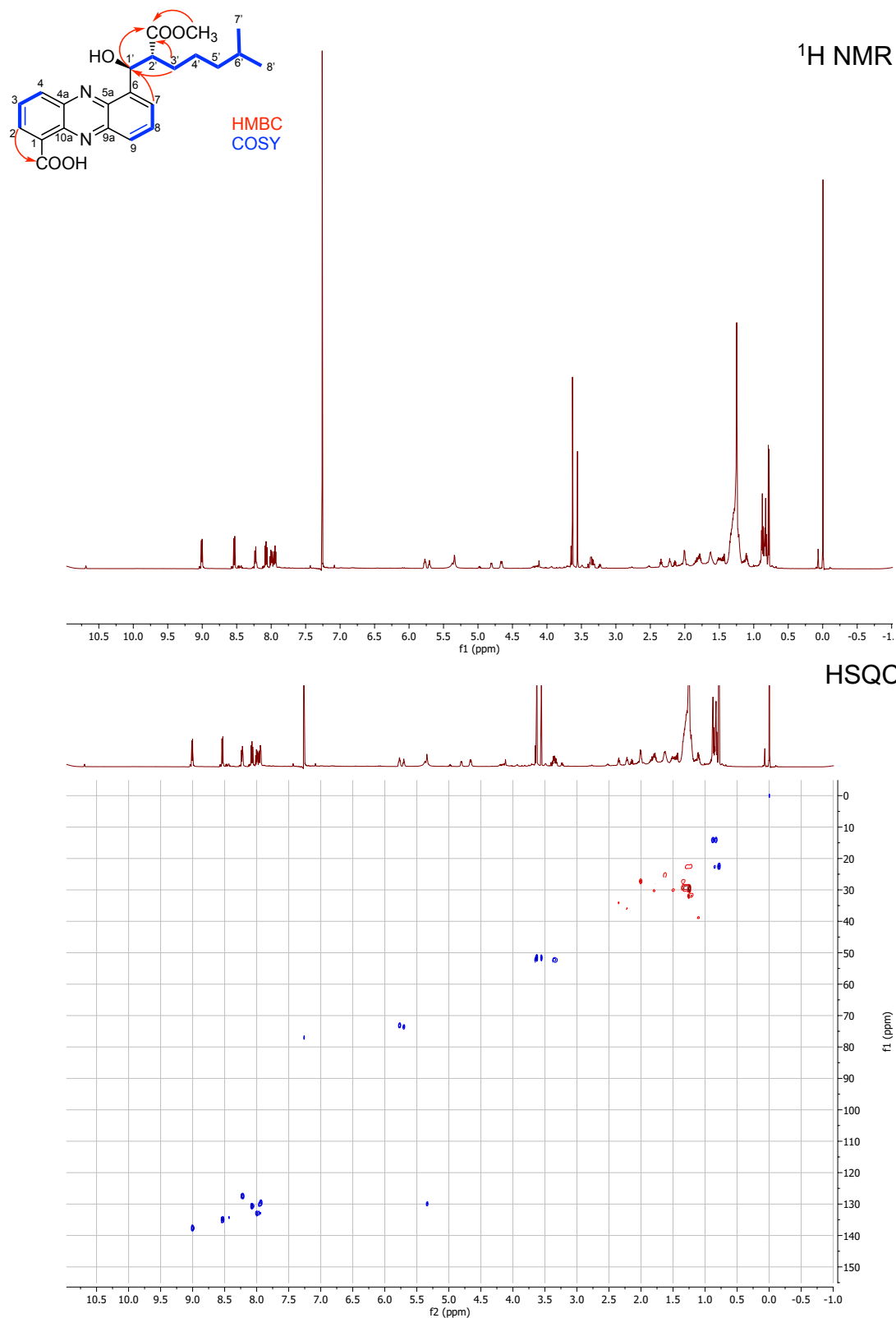




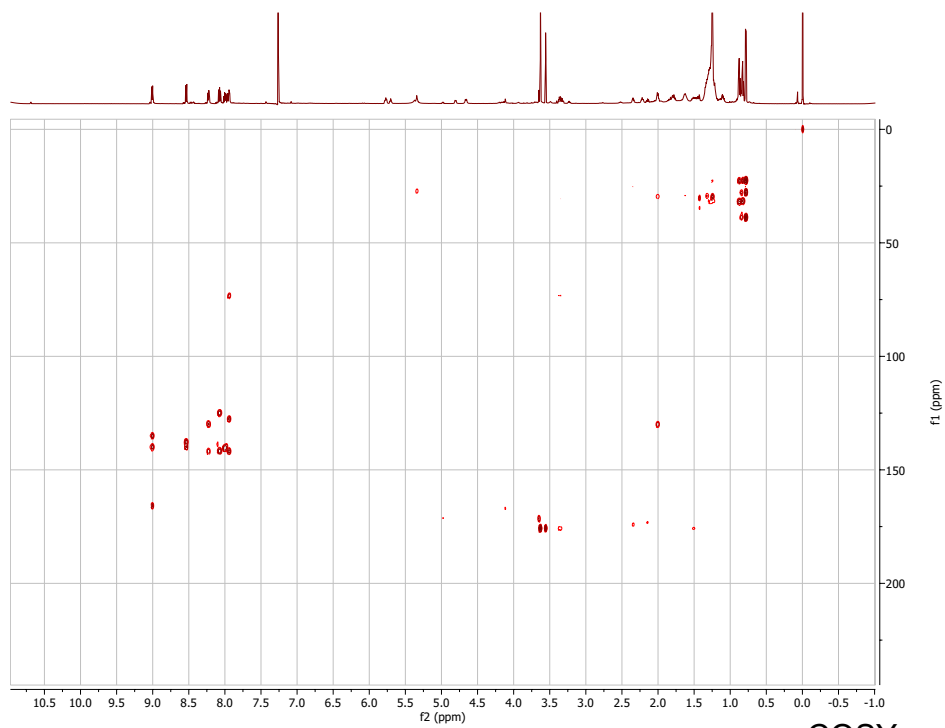
NMR spectroscopic data of compound **13** (streptophenazine C).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	124.93			
2	137.59	9.01, dd (1.43, 7.06)	4, 10a, 1-COOH	3,
3	130.69	8.07, dd (7.06, 8.71)	1, 4a	2, 4
4	134.89	8.54, dd (1.44, 8.66)	2, 10a	3
4a	142			
5a	142.2			
6	140.6			
7	129.68	7.95, m	1', 9, 5a	8
8	132.98	8.0, m	6, 9a	7, 9
9	127.58	8.23, ddd (1.53, 5.44, 8.49)	5a, 7	8
9a	140.0			
10a	140.62			
1'	73.38	5.73 dt (7.2, 7.2, 38.29)	3', 2', 7, 5a, 2'-COOCH₃	2'
2'	52.25	3.37, m	3', 4', 1', 2'-COOCH₃	1', 3'
3'	30.12	1.48 and 1.82	1', 2', 5', 2'-COOCH₃	4'
4'	27.1	1.34	2', 6'	3', 5'
5'	38.7	1.1	7'/8', 3'	4', 6'
6'	27.8	1.43	7'/8', 3', 5'	7'/8', 5'
7'	22.37	0.78, d (6.61)	8', 6', 5'	6'
8'	22.37	0.78, d (6.61)	7', 6', 5'	6'
1-COOH	166.85			
2'-COOCH₃	175.98			
2'-COOCH₃	51.74	3.63 and 3.56	2'-COOCH₃	

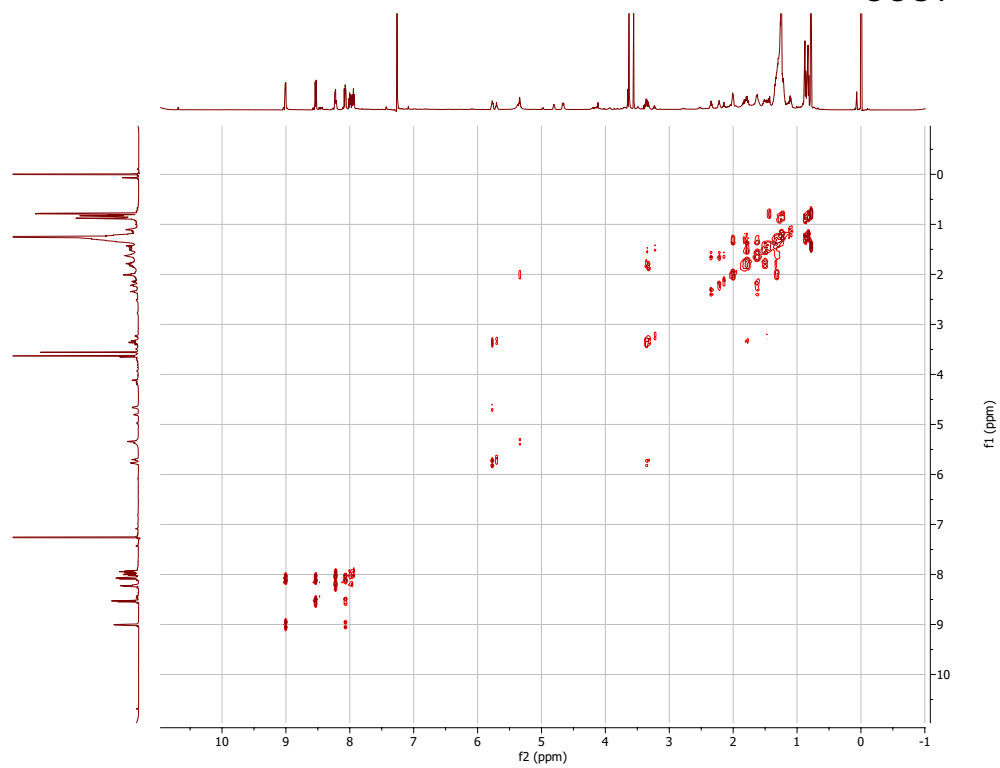
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **13** (streptophenazine C).



HMBC



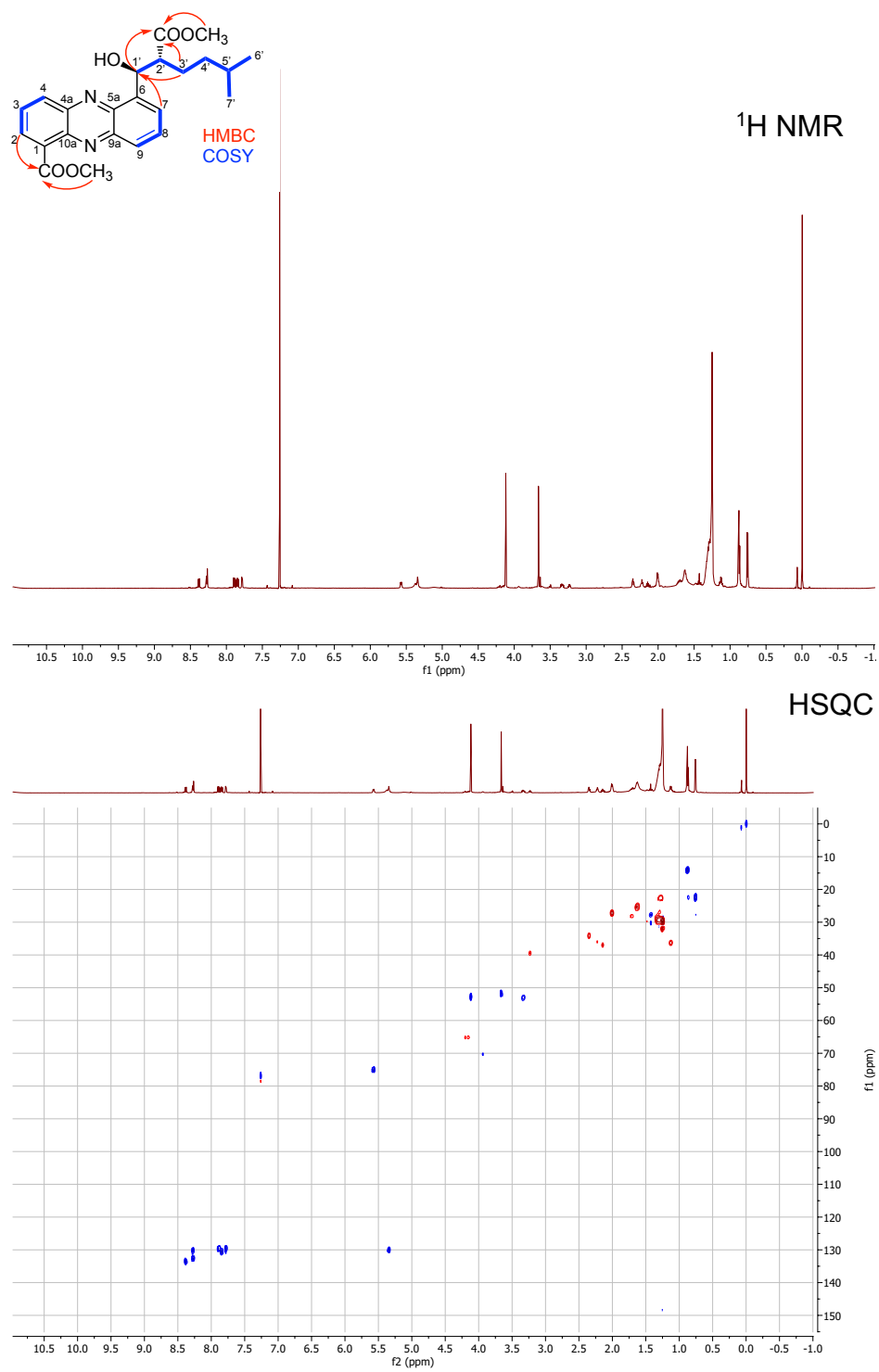
COSY



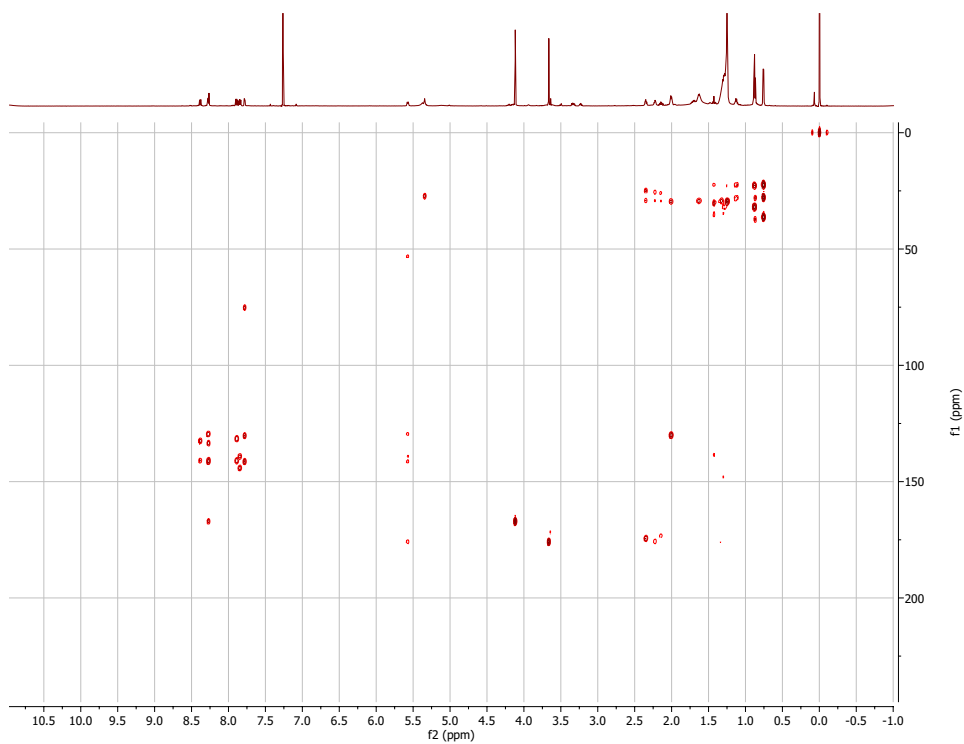
NMR spectroscopic data of compound **14** (streptophenazine D).

Position	δ_C	δ_H mult. (J)	HMBC	COSY
1	131.22			
2	132.36	8.26, m	4, 10a, 1-COOCH₃	3
3	129.46	7.89, dd (6.90, 8.67)	1, 4a	2, 4
4	133.39	8.38, dd (1.44, 8.70)	2, 10a	3
4a	140.86			
5a	140.93			
6	139.04			
7	129.43	7.78, d (6.72)	1', 5a, 9	8
8	130.48	7.85, dd (6.77, 8.71)	6, 9a	7, 9
9	130.03	8.27, m	7, 5a	8
9a	144.27			
10a	140.68			
1'	75.29	5.57, d (7.53)	3', 2, 5a, 7, 2'-COOCH₃	2'
2'	53.02	3.33, ddd (5.03, 7.49, 9.87)	3', 4', 1', 2'-COOCH₃	1', 3'
3'	28.91	1.71 dtd (6.34, 9.3, 10.00, 13.43), 1.32	1', 2', 4', 5', 2'-COOCH₃	2', 4'
4'	36.22	1.13	2', 3', 5', 6'/7'	3', 5'
5'	27.85	1.42	3', 4', 6'/7'	6'/7', 4'
6'	22.37	0.76 dd (1.66, 6.64)	4', 5', 7'	5'
7'	22.37	0.76	4', 5', 6'	5'
1-COOCH₃	167.1		1-COOCH₃	
1-COOCH₃	52.57	4.12, s		
2'-COOCH₃	175.69	-		
2'-COOCH₃	51.56	3.66, s	2'-COOCH₃	

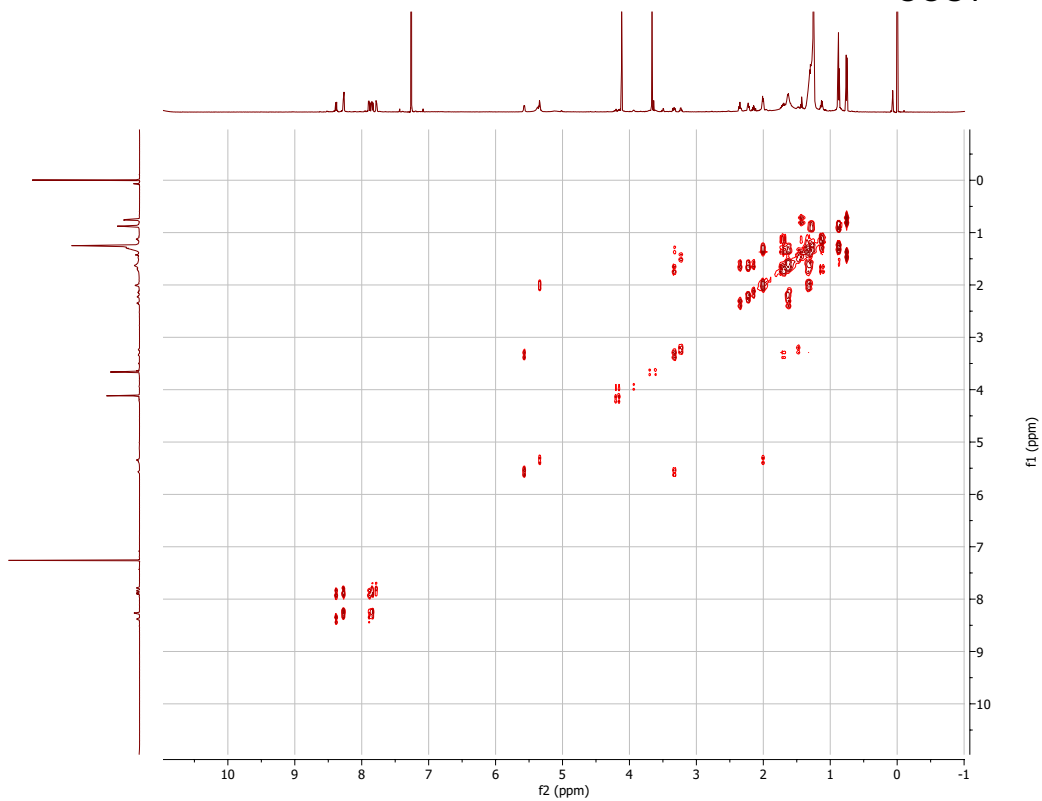
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **14** (streptophenazine D).



HMBC



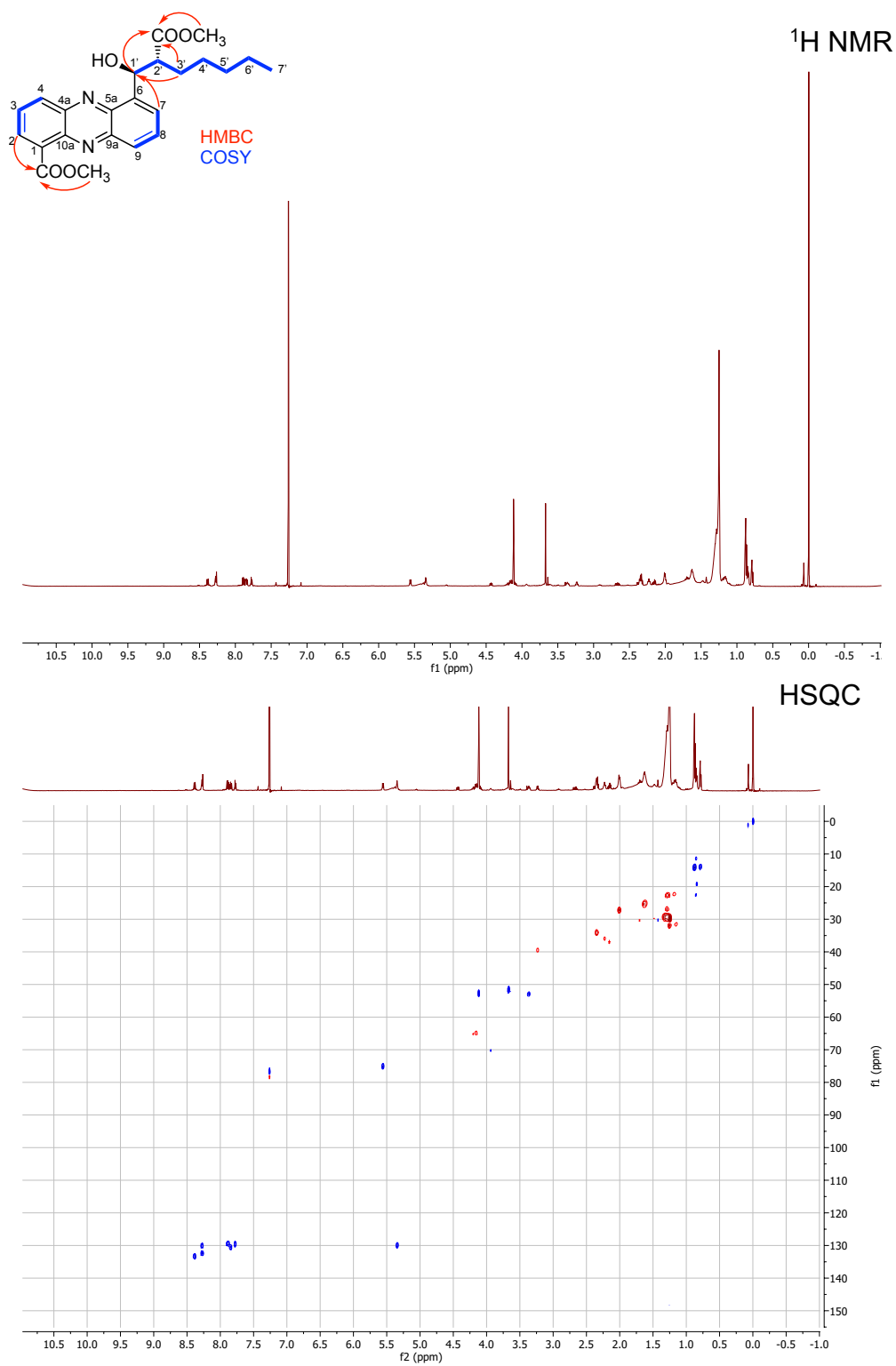
COSY



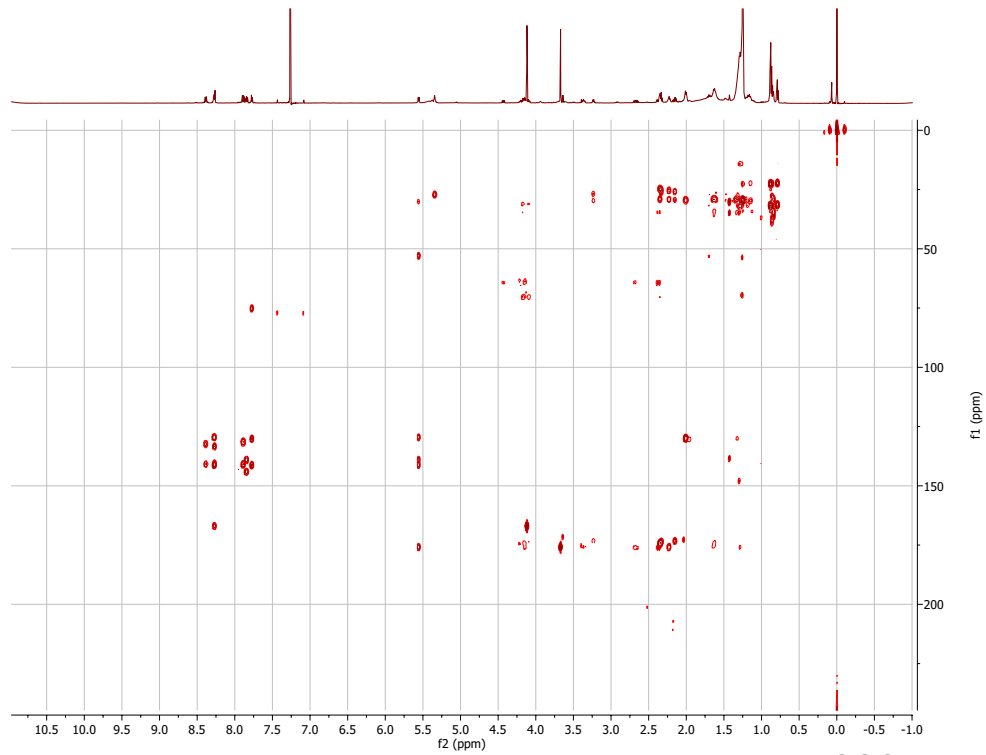
NMR spectroscopic data of compound **15** (streptophenazine P).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	132			
2	132.2	8.27, t (1.71, 1.76))	4, 10a, 1-COOCH₃	3
3	129.1	7.88, dd (6.90, 8.73)	1, 4a	2, 4
4	133.4	8.39, dd (1.42, 8.67)	2, 10a	3
4a	141			
5a	141.4			
6	138.9			
7	129.33	7.77, d (6.76)	1', 5a, 9	8
8	130.4	7.85, dd (6.79, 8.74)	6, 9a	7, 9
9	130.1	8.28, dd (1.40, 3.88)	7, 5a	8
9a	144.08			
10a	141			
1'	75.1	5.56, d (7.63)	2', 3', 7, 5a, 9, 2'-COOCH₃	2'
2'	52.9	3.36, ddd (4.41, 7.37, 9.95)	3', 4', 1', 2'-COOCH₃	1', 3'
3'	29.4	1.68 and 1.29	1', 2', 5', 2'-COOCH₃	2', 4'
4'	29.7	1.3		3', 5'
5'	31.8	1.25	3', 7'	4', 6'
6'	22.37	1.18	5'	5', 7'
7'	14.01	0.79, t (7.04, 7.04)	6', 5'	6'
1-COOCH₃	167.3			
1-COOCH₃	52.7	4.12, s	1-COOCH₃	
2'-COOCH₃	175.6			
2'-COOCH₃	51.7	3.67	2'-COOCH₃	

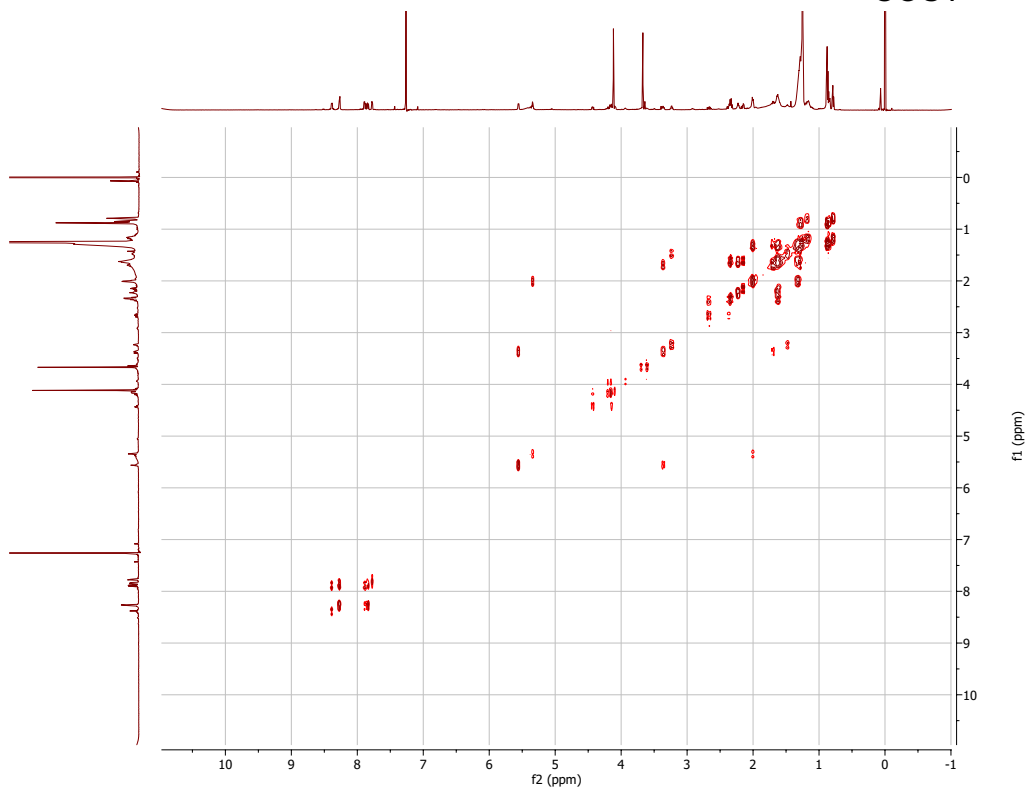
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **15** (streptophenazine P).



HMBC



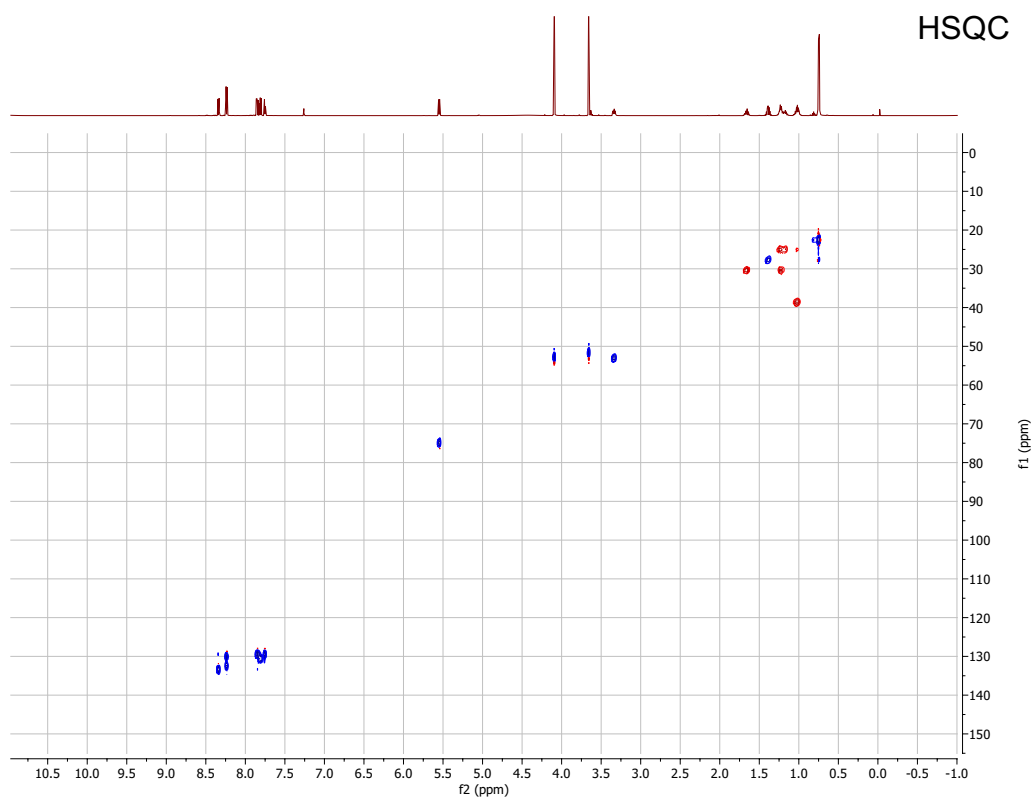
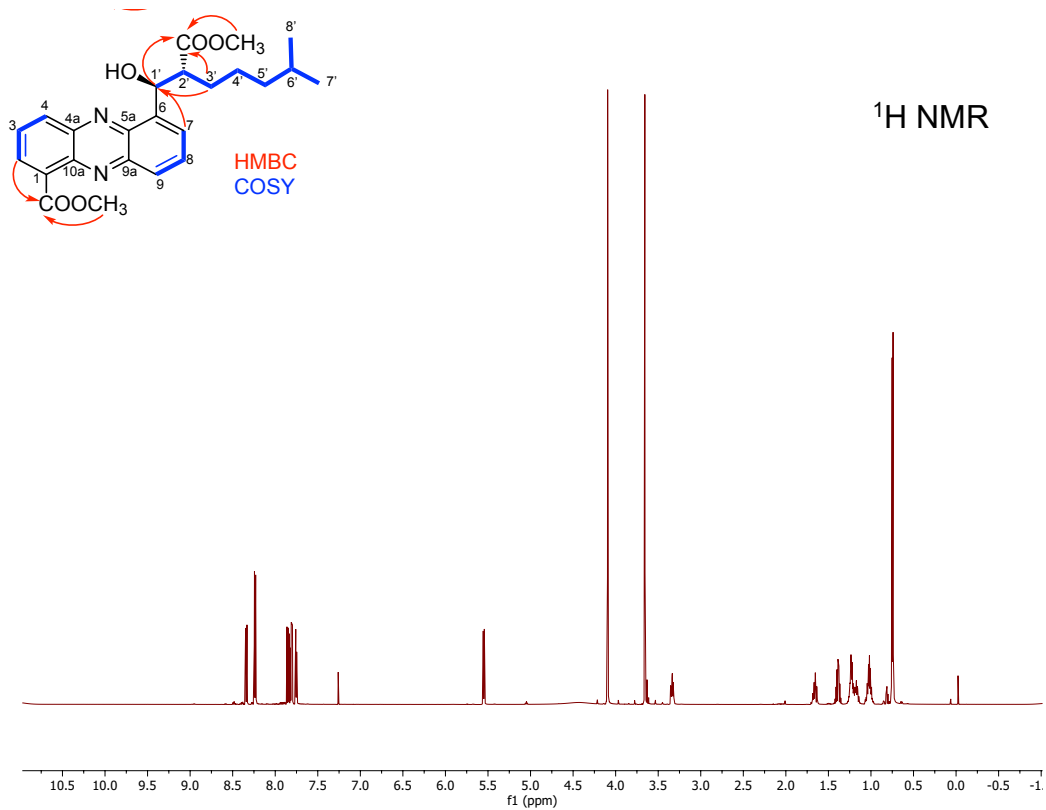
COSY



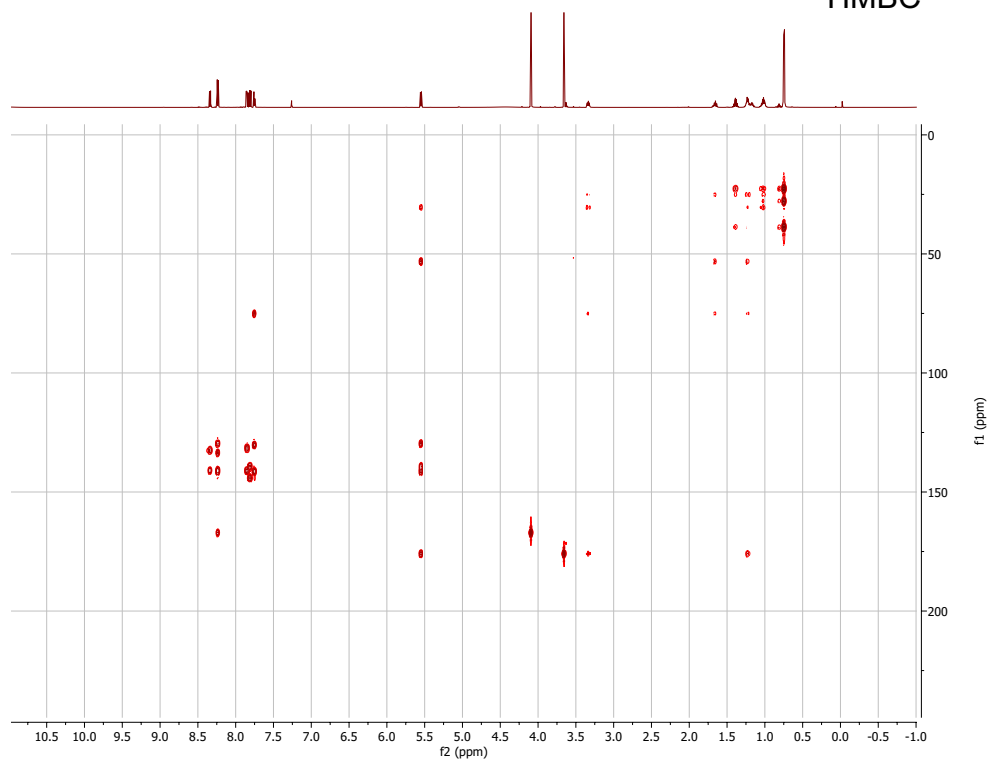
NMR spectroscopic data of compound **16** (streptophenazine A).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.5			
2	132.5	8.24, t (1.35, 1.35)	4, 10a, 1-COOCH₃	3
3	129.4	7.84, dd (6.91, 8.72)	1, 4a	2, 4
4	133.5	8.34, dd (1.46, 8.71)	2, 10a	3
4a	141.1			
5a	140.9			
6	138.9			
7	129.35	7.75, dt (1.07, 1.07, 6.79)	1', 5a, 9	8
8	130.7	7.81, dd (6.80, 8.72)	6, 9a	7, 9
9	129.9	8.23, d (1.45)	7, 5a	8
9a	144			
10a	140.6			
1'	74.99	5.55, d (7.68)	2', 3', 5a, 7, 2'-COOCH₃	2'
2'	52.95	3.35, m	1', 3', 4', 6, 2'-COOCH₃	1', 3'
3'	30.34	1.24, 1.66	1', 2', 4', 5', 2'-COOCH₃	2', 4'
4'	24.9	1.18	2', 6'	5', 3'
5'	38.6	1.01 tddd (2.53, 5.20, 6.91, 9.28, 9.28)	3', 4', 7'/8'	4', 6'
6'	27.8	1.4, dt (6.66, 6.66, 13.31)	5', 7'	7'/8', 5'
7'	22.37	0.75, dd (2.13, 6.66)	7'/8', 6', 5'	6'
8'	22.37	0.75, dd (2.13, 6.66)	7'/8', 6', 5'	6'
1-COOCH₃	166.9			
1-COOCH₃	52.3	4.10, s	1-COOCH₃	-
2'-COOCH₃	175.7			
2'-COOCH₃	51.68	3.66, s	2'-COOCH₃	-

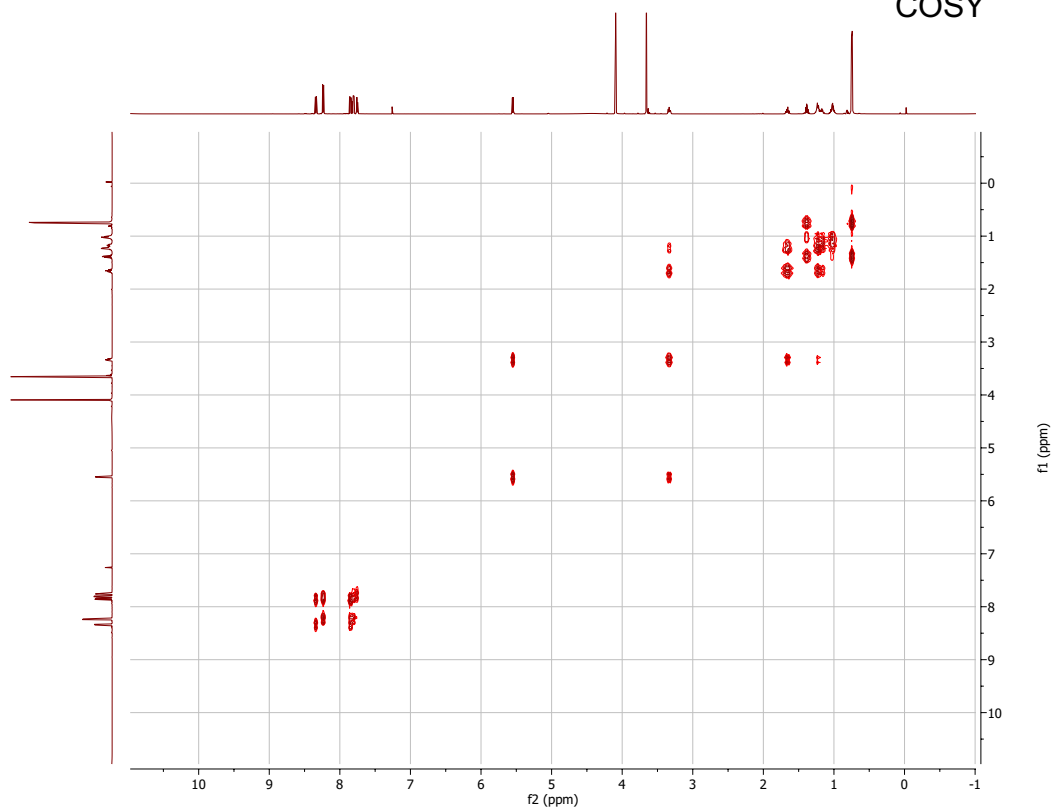
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **16** (streptophenazine A).



HMBC



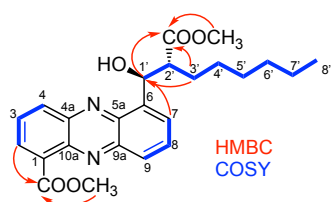
COSY



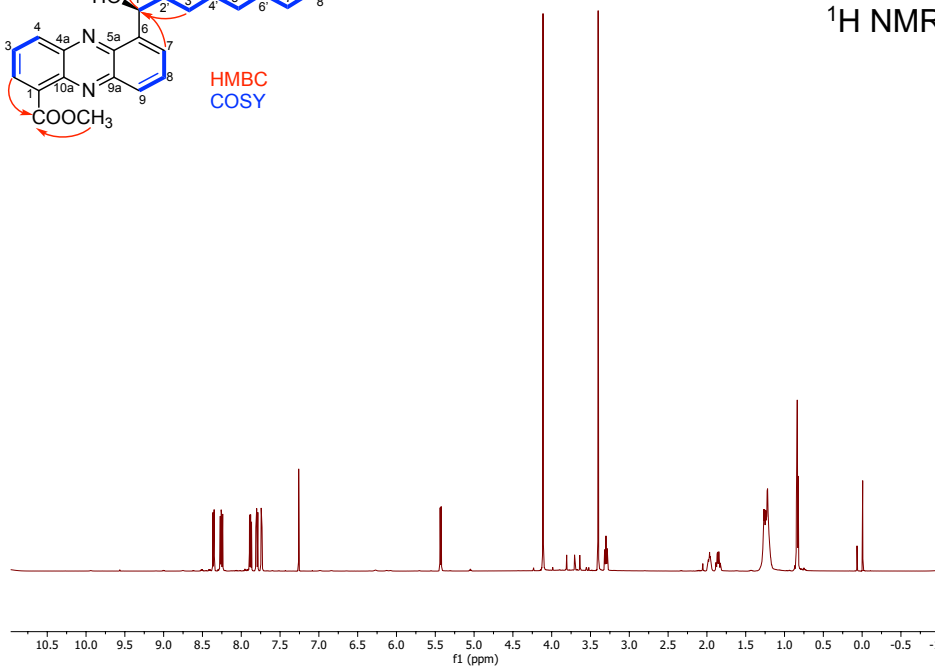
NMR spectroscopic data of compound **17** (streptophenazine B).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.9			
2	132.4	8.26 dd (1.44, 6.96)	4, 10a, 1-COOCH₃	3
3	129.5	7.88 dd (6.90, 8.71)	1, 4a	2, 4
4	133.2	8.36 dd (1.45, 8.71)	2, 10a	3
4a	140.5			
5a	141.4			
6	138.2			
7	129.7	7.74, dt (1.10, 1.10, 6.75)	1', 5a, 9	8
8	130.5	7.8 dd (6.80, 8.76)	6, 9a	7, 9
9	130.0	8.24 dd (1.43, 8.73)	7, 5a	8
9a	144.1			
10a	140.7			
1'	75.8	5.43 d (7.75)	2', 3', 5a, 6, 7, 2'-COOCH₃	2'
2'	53.4	3.30, m	1', 4', 6, 2'-COOCH₃	1', 3'
3'	28.7	1.85 dtd (4.09, 10.54, 10.63, 14.25) and 1.95 tdd (2.39, 5.51, 9.30, 9.30)	1', 2', 5', 2'-COOCH₃	2', 4'
4'	28.2	1.15-1.3	2', 6'	3', 5'
5'	28.2	1.15-1.3	3', 7'	6'
6'	31.5	1.15-1.3	4', 8'	5', 7'
7'	22.4	1.15-1.3	5', 6'	6', 8'
8'	14.13	0.84 t (7.0)	6', 7'	7'
1-COOCH₃	167.2			
1-COOCH₃	52.8	4.11 s	1-COOCH₃	-
2'-COOCH₃	175.4			
2'-COOCH₃	51.4	3.40, s	2'-COOCH₃	-

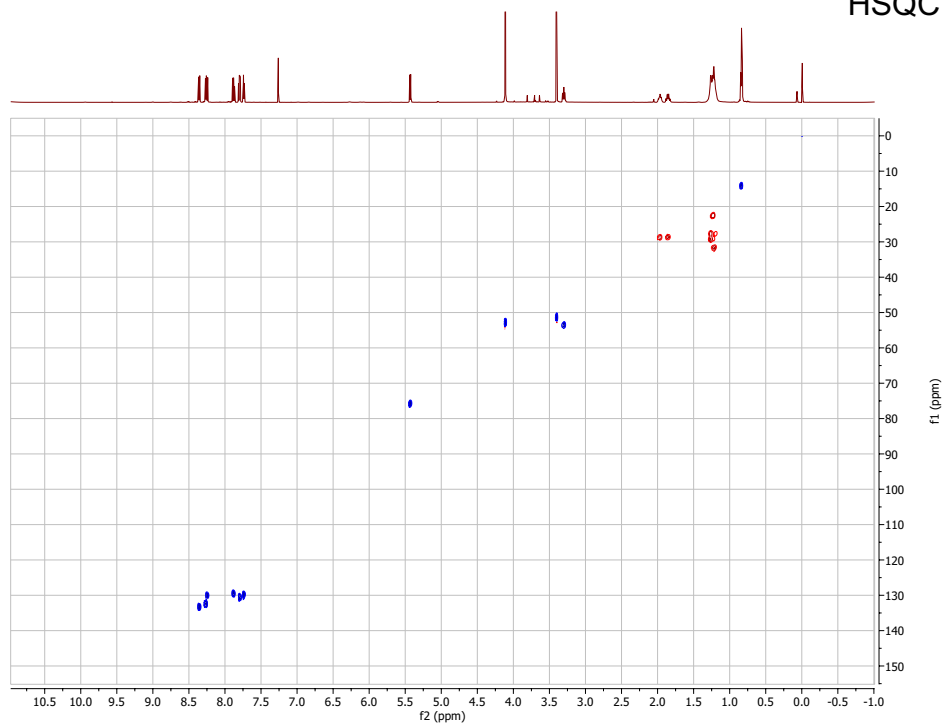
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **17** (streptophenazine B).



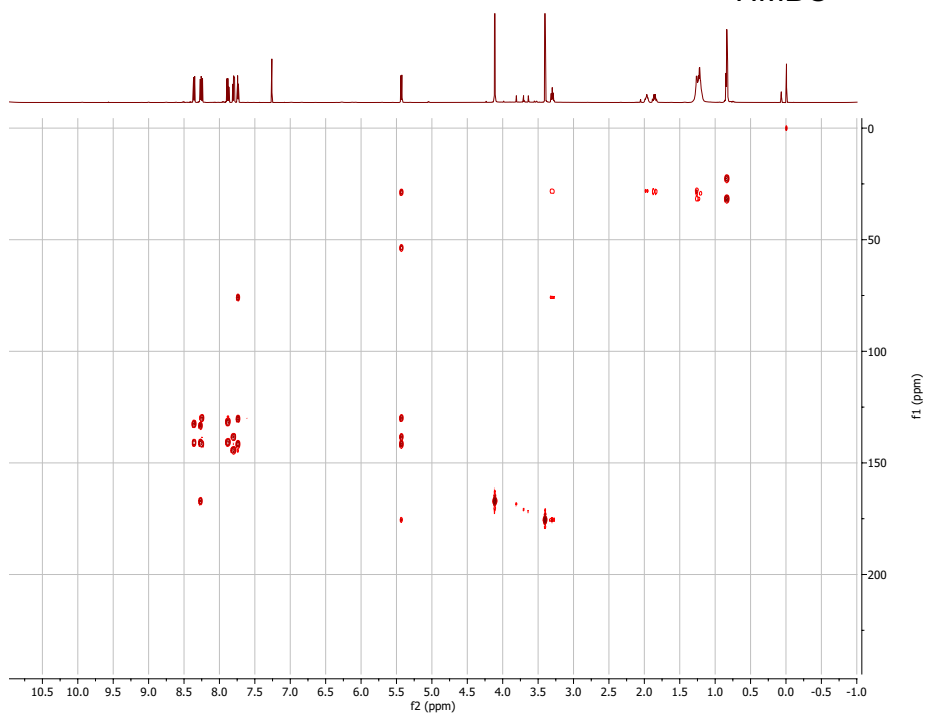
^1H NMR



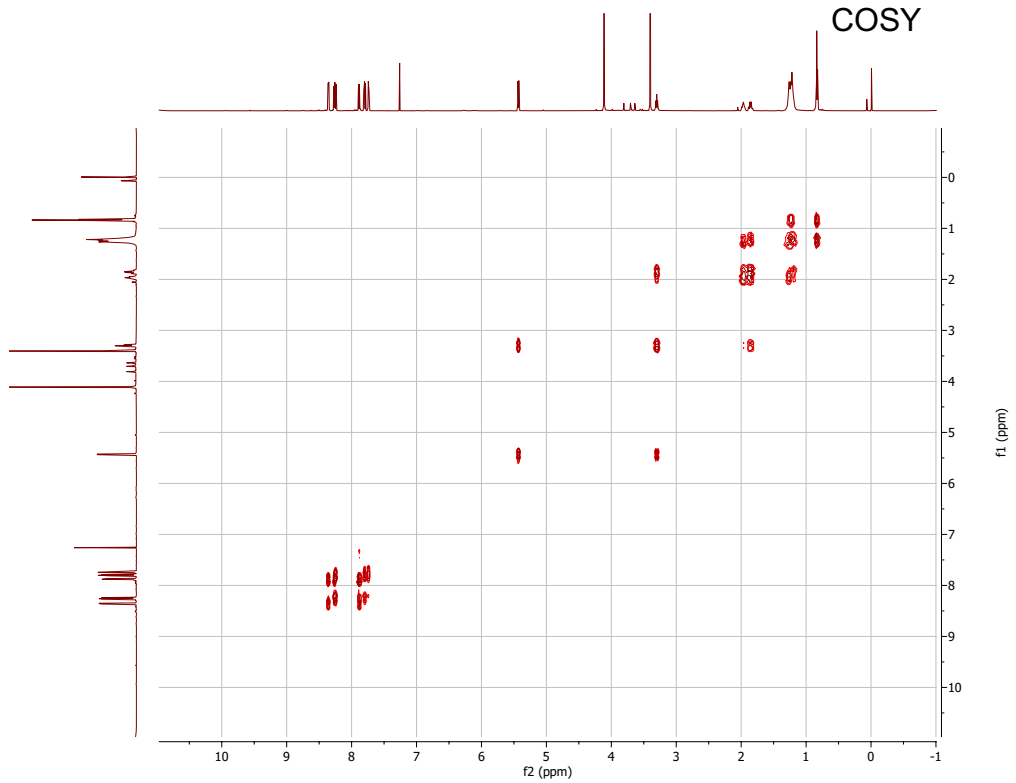
HSQC



HMBC



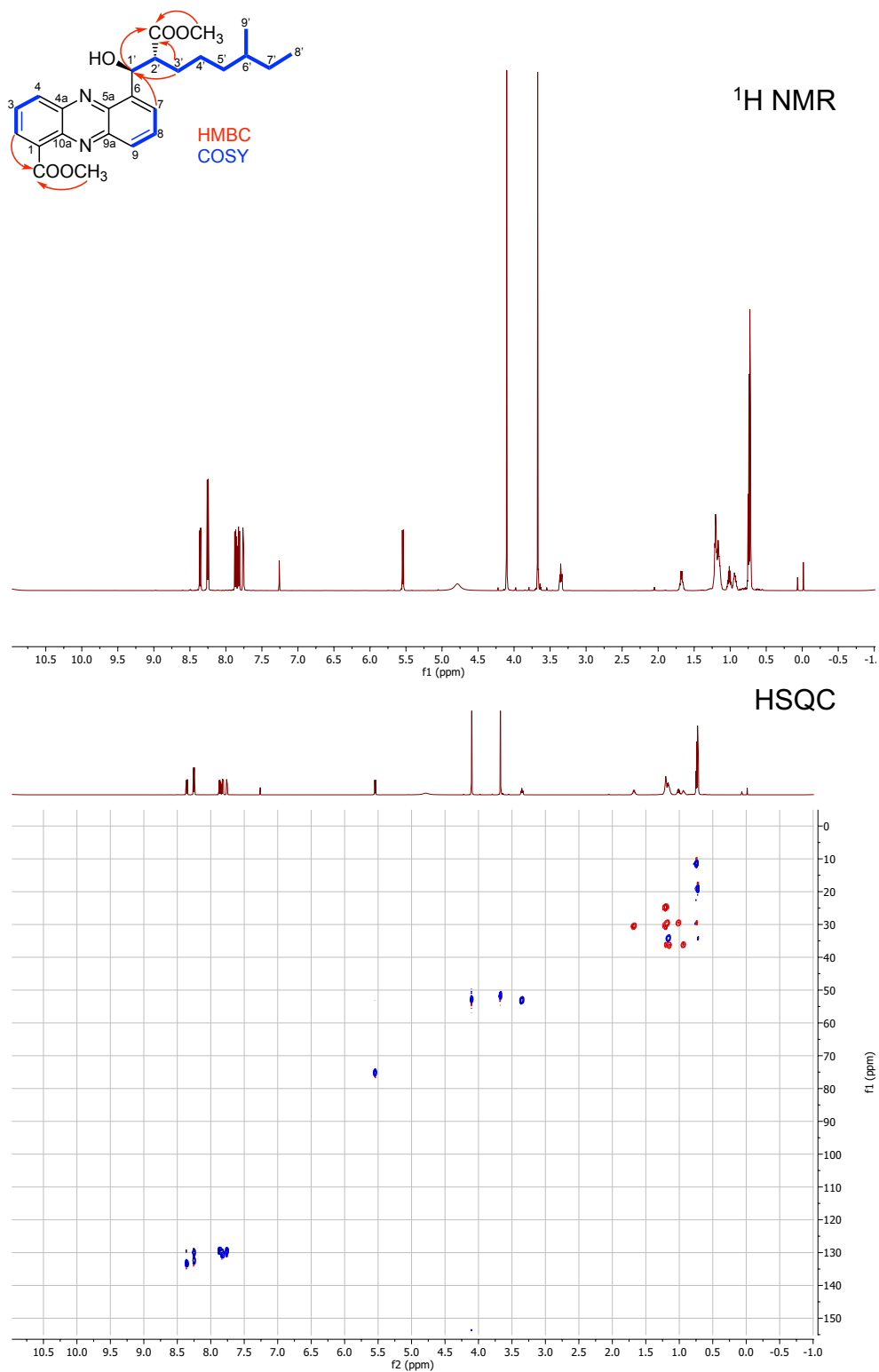
COSY



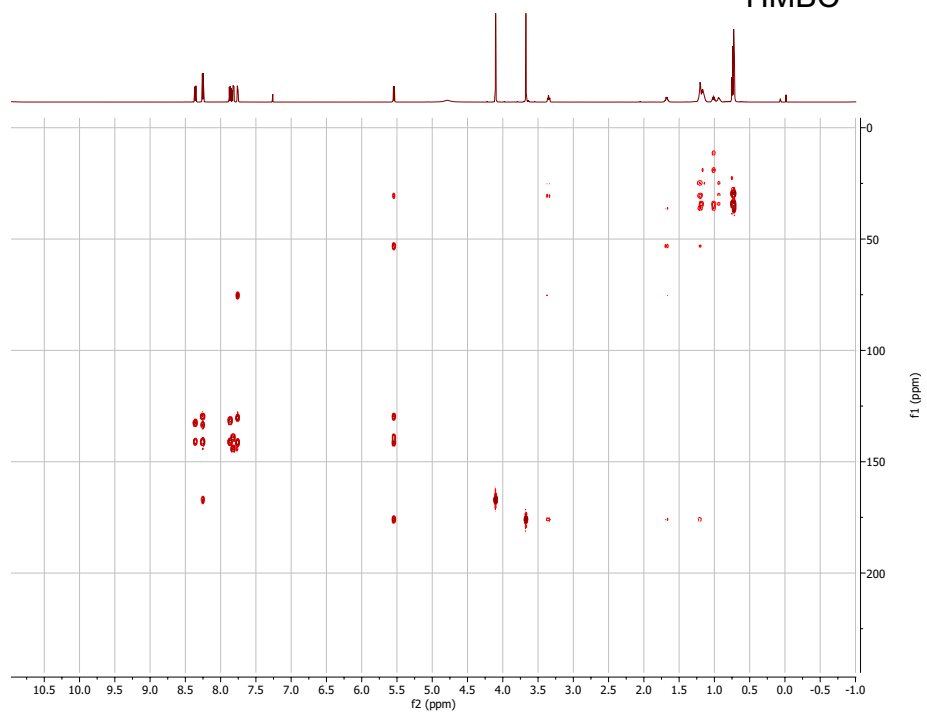
NMR spectroscopic data of compound **18** (streptophenazine G).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.6			
2	132.4	8.26, t (1.43, 1.43)	4, 10a, 1-COOCH₃	3
3	129.5	7.85, dd (6.92, 8.71)	1, 4a	2, 4
4	133.3	8.36, dd (1.43, 8.70)	2, 10a	3
4a	140.7			
5a	141.05			
6	139.2			
7	129.5	7.76, dt (1.11, 1.11, 6.71)	1', 5a, 9	8
8	130.5	7.83, dd (6.77, 8.75)	6, 9a	7, 9
9	129.9	8.25, d (1.43)	7, 5a	8
9a	144.1			
10a	141.1			
1'	75.1	5.54, d (7.82)	2', 3', 5a, 7, 2'-COOCH₃	
2'	53.1	3.35, ddd (3.9, 7.61, 9.73)	1', 3', 4', 2'-COOCH₃	3', 1'
3'	30.5	1.21 and 1.68	1', 2', 4', 5', 2'-COOCH₃	2', 4'
4'	24.8	1.2	2', 3', 6'	3', 5'
5'	36.15	0.94, dtd (3.07, 4.93, 6.22, 10.72) and 1.15	3', 4', 6', 7'	4', 6'
6'	34.2	1.17	4', 8', 9'	5', 7', 9'
7'	29.56	1.02 and 1.19	5', 6', 8', 9'	6', 8'
8'	11.37	0.74, m	5', 6', 7'	6', 7'
9'	19.08	0.72, m	5', 6', 7'	6', 7'
1-COOCH₃	167.2			
1-COOCH₃	52.7	4.1, s	1-COOCH₃	
2'-COOCH₃	175.8			
2'-COOCH₃	51.6	3.67, s	2'-COOCH₃	

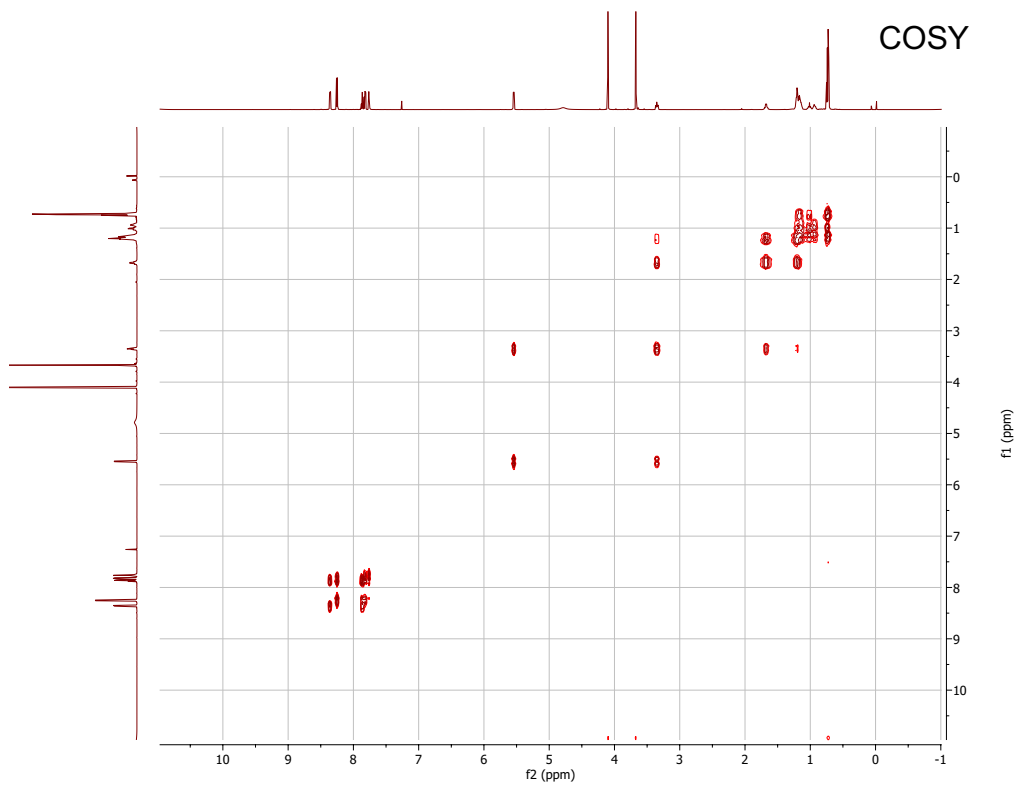
^1H , HSQC, HMBC, and COSY NMR spectra key HMBC and COSY correlations of compound **18** (streptophenazine G).



HMBC



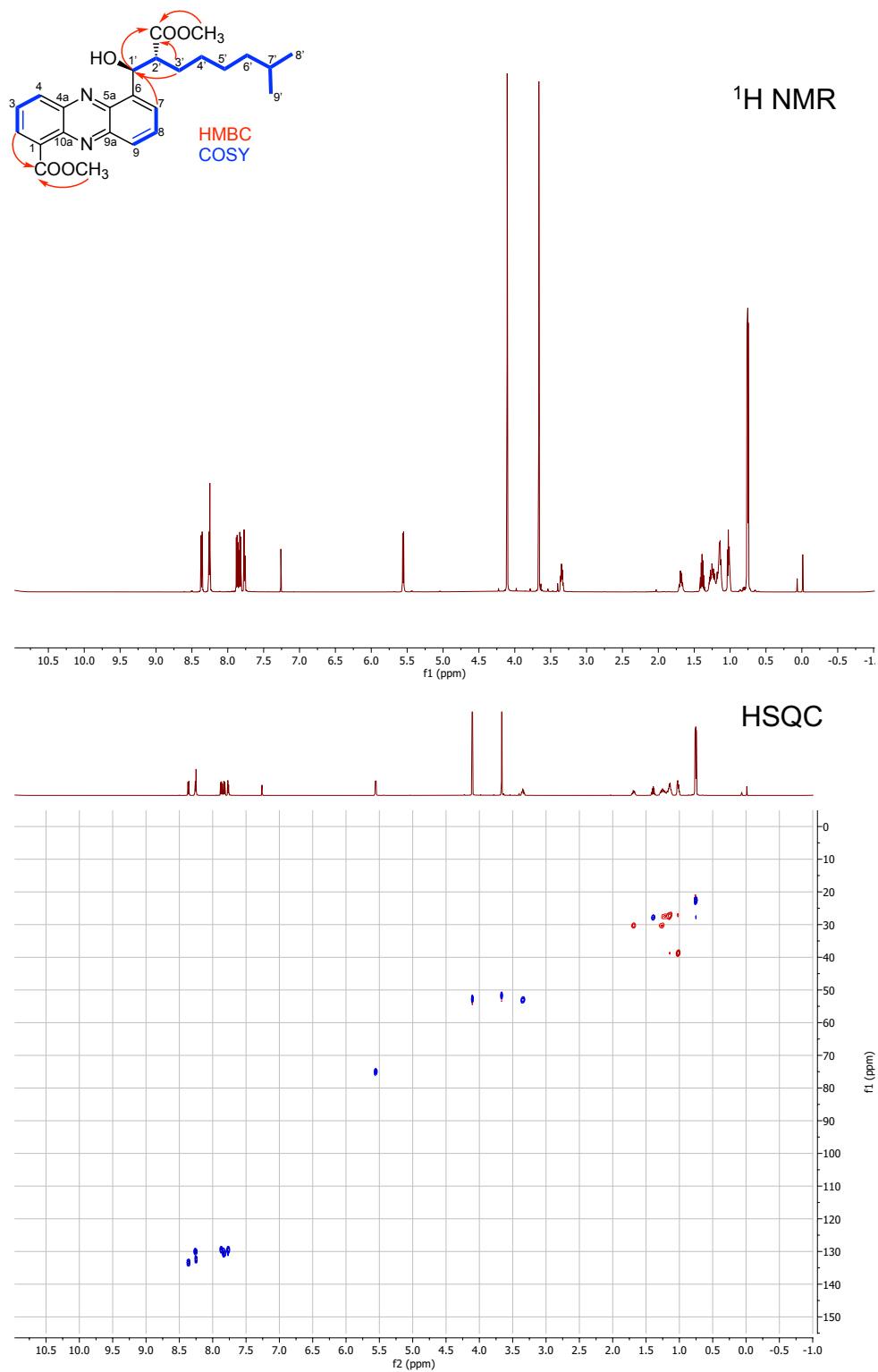
COSY



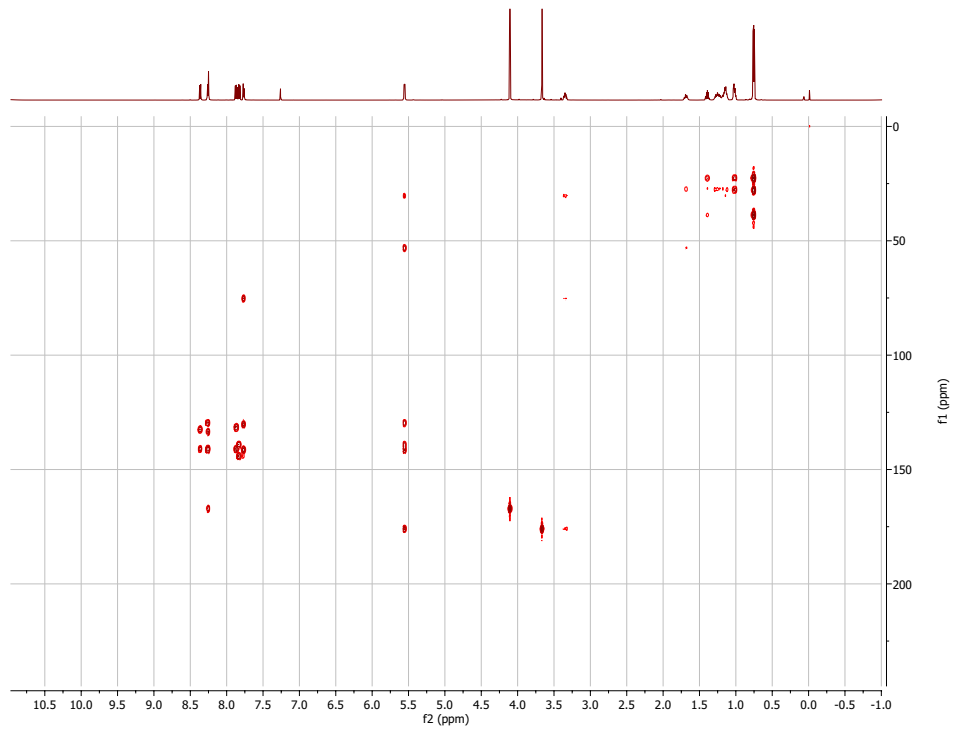
NMR spectroscopic data of compound **19** (streptophenazine F).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.9			
2	132.6	8.26, dd (1.41, 3.51)	4, 10a, 1-COOCH₃	3
3	129.4	7.86, dd (6.90, 8.73)	1, 4a	2, 4
4	133.4	8.36, dd (1.44, 8.71)	2, 10a	3
4a	140.9			
5a	141.1			
6	139.1			
7	129.6	7.77, dt (1.04, 1.04, 6.75)	1', 5a, 9	8
8	130.5	7.83, dd (6.7, 8.73)	6, 9a	7, 9
9	130.1	8.25, t (1.55, 1.55)	7, 5a	8
9a	144.2			
10a	140.8			
1'	75.1	5.56, d (7.69)	2', 2', 5a, 7, 2'-COOCH₃	2'
2'	53.1	3.35, ddd (4.61, 7.64, 10.16)	1', 3', 4', 6, 2'-COOCH₃	1', 3'
3'	30.3	1.68 and 1.27	1', 2', 5', 2'-COOCH₃	2', 4'
4'	27.7	1.15 dtt (3.22, 3.22, 5.32, 5.32, 12.64)	2', 3', 5', 6' 7'	3', 5'
5'	27.2	1.18	3', 7'	6'
6'	38.5	1.01	8'/9', 4'	5', 7'
7'	27.8	1.4 dt (6.07, 6.67, 13.28)	8'/9', 5', 6'	6', 8'/9'
8'	22.5	0.76, dd (4.07, 6.70)	8'/9', 7', 6'	7'
9'	22.5	0.76, dd (4.07, 6.70)	8'/9', 7', 6'	7'
1-COOCH₃	167			
1-COOCH₃	52.7	4.11, s	1-COOCH₃	
2'-COOCH₃	175.9			
2'-COOCH₃	51.5	3.66, s	2'-COOCH₃	

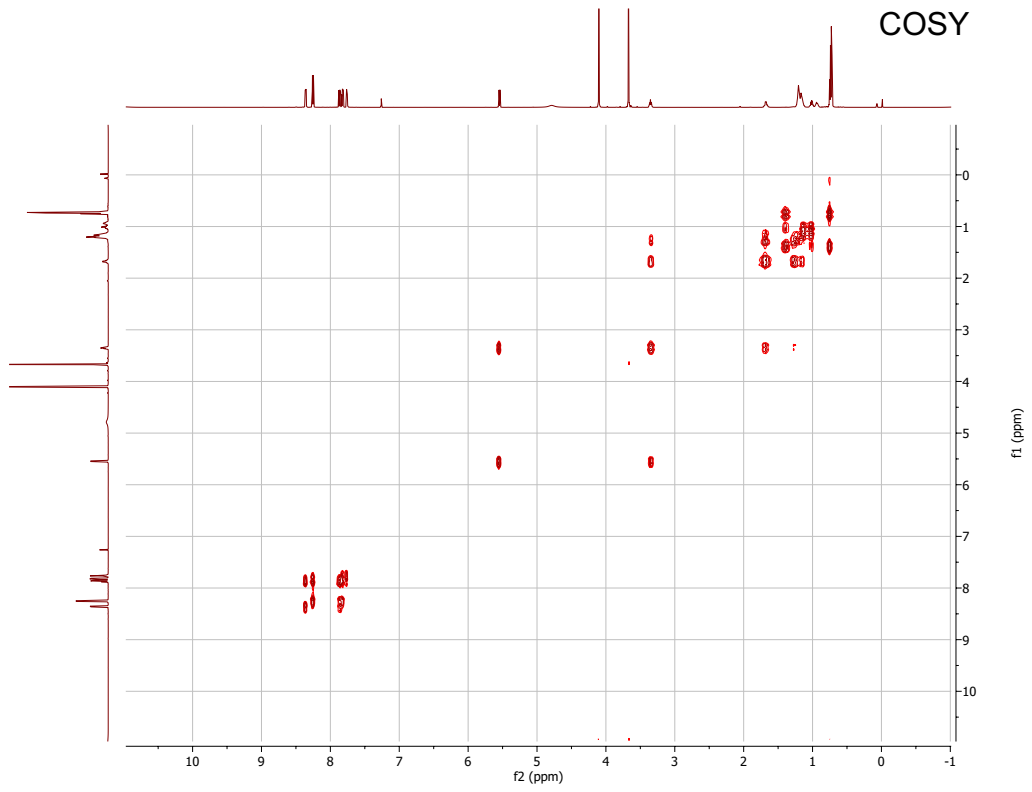
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **19** (streptophenazine F).



HMBC



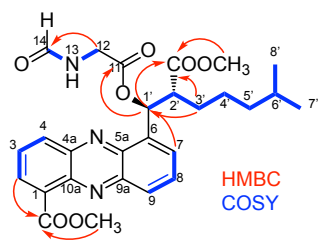
COSY



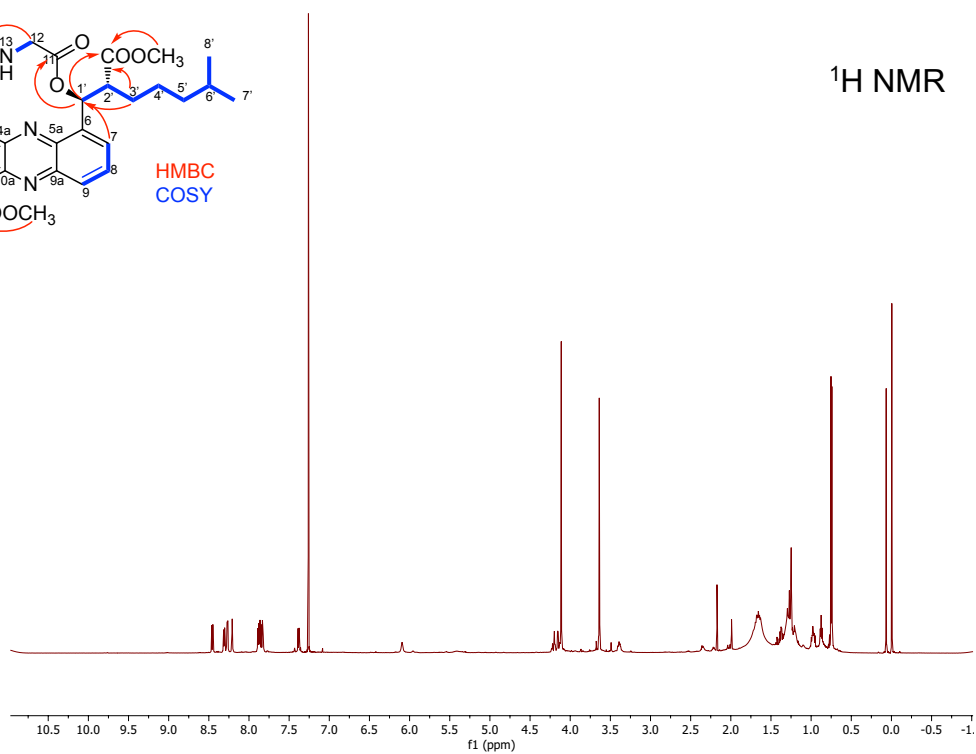
NMR spectroscopic data of compound **20** (streptophenazine Q).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	136.3			
2	133	8.27 dd (1.42, 6.90)	4, 10a, 1-COOCH₃	3
3	129.3	7.9 m	1, 4a	2, 4
4	133.7	8.46 dd (1.46 8.720)	2, 10a	3
4a	142.3			
5a	141.3			
6	136.8			
7	129.5	7.9 m	1', 5a, 9	8
8	129.5	7.9 m	6, 9a	7, 9
9	131	8.31 dd (1.53, 8.54)	7, 5a	8
9a	142.1			
10a	141.5			
11	168			
12	40.3	4.19 d (4.98); 4.16 d (5.08)	14	13
13	-	6.05 s	-	12, 14
14	161	8.21 s	12	13
1'	73.1	7.39 d (8.1)	2', 5a, 6, 7, 11, 2'-COOCH₃	2'
2'	51.1	3.39 m	1', 3', 2'-COOCH₃	1', 3'
3'	28.9	1.67, 1.25	1', 5' 2'-COOCH₃	2', 4'
4'	24.9	1.18	2', 5', 6'	3', 5'
5'	38.7	1.01	3', 7'/ 8'	4', 6'
6'	27.7	1.39	5', 4', 7'/ 8'	7', 8', 5'
7'	22.6	0.75 d (6.60)	5', 6', 8'	8', 6'
8'	22.6	0.75 d (6.60)	5', 6', 7'	6', 7'
1-COOCH₃	167.3			
1-COOCH₃	52.4	4.11 s	1-COOCH₃	
2'-COOCH₃	173.4			
2'-COOCH₃	51.4	3.64 s	2'-COOCH₃	

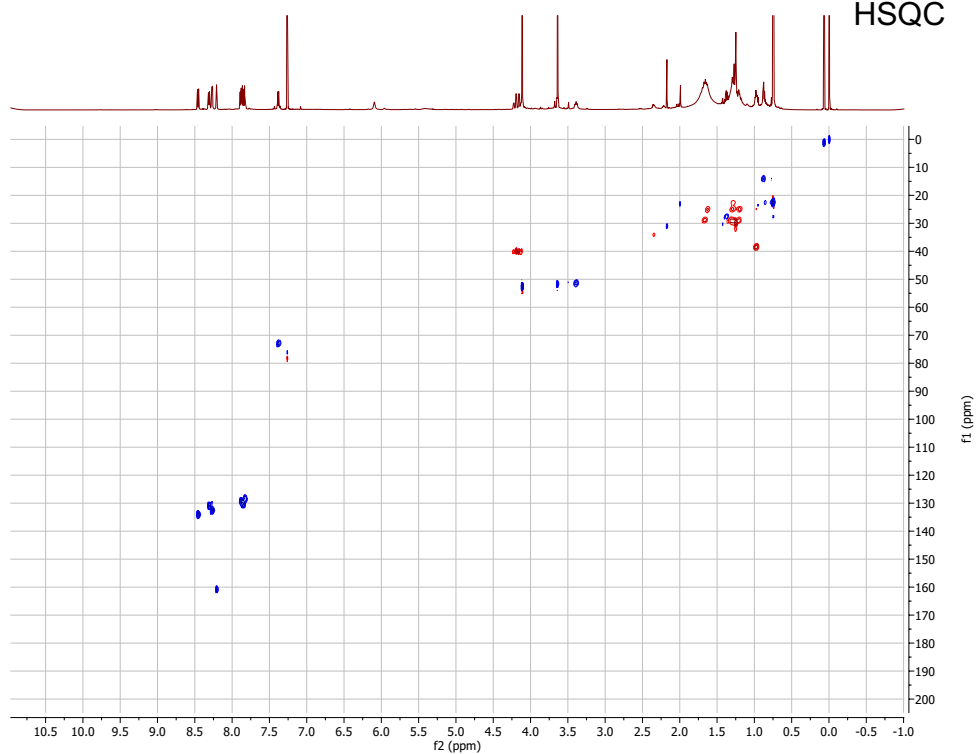
^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **20** (streptophenazine Q).



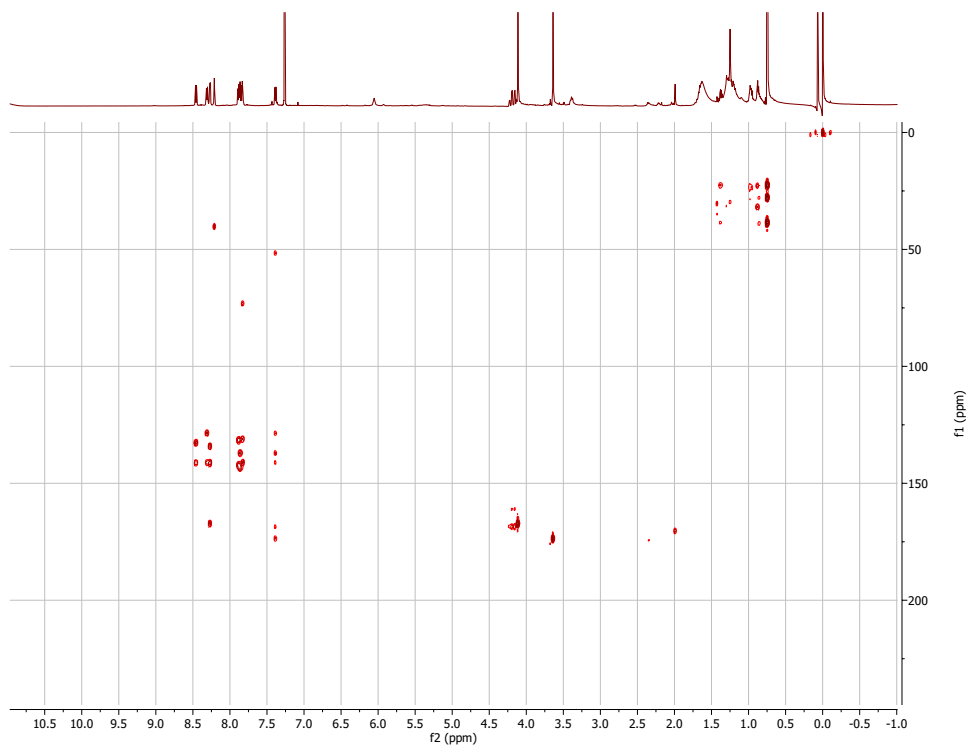
^1H NMR



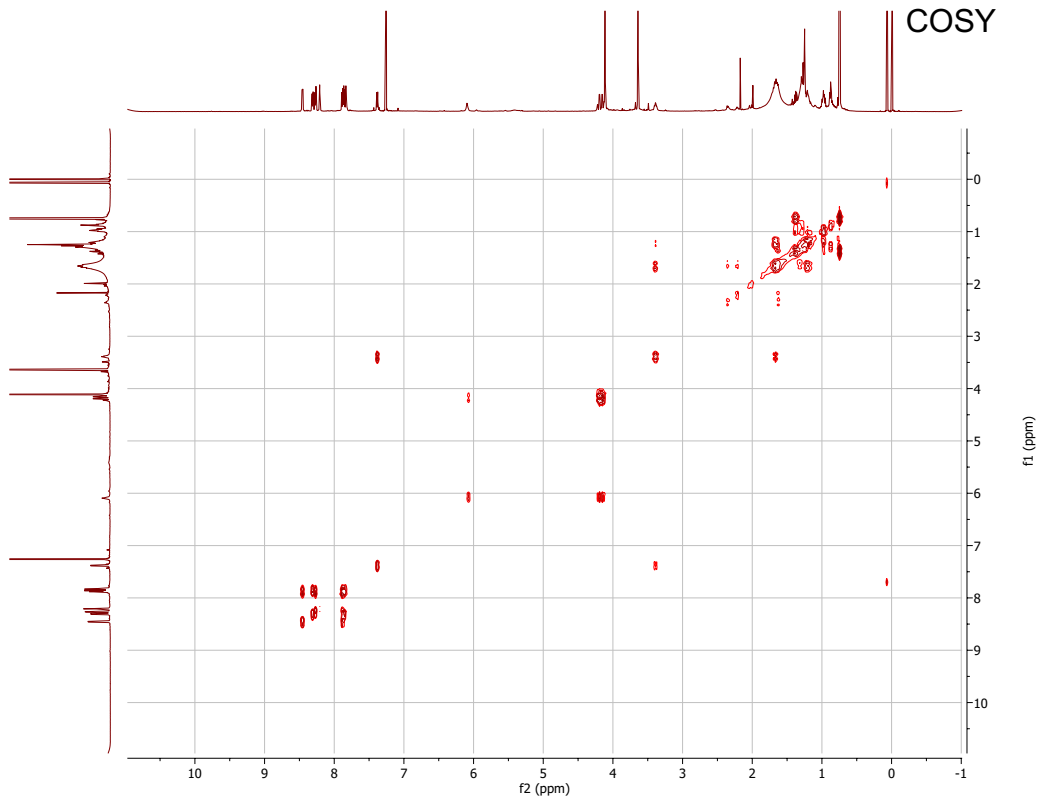
HSQC



HMBC



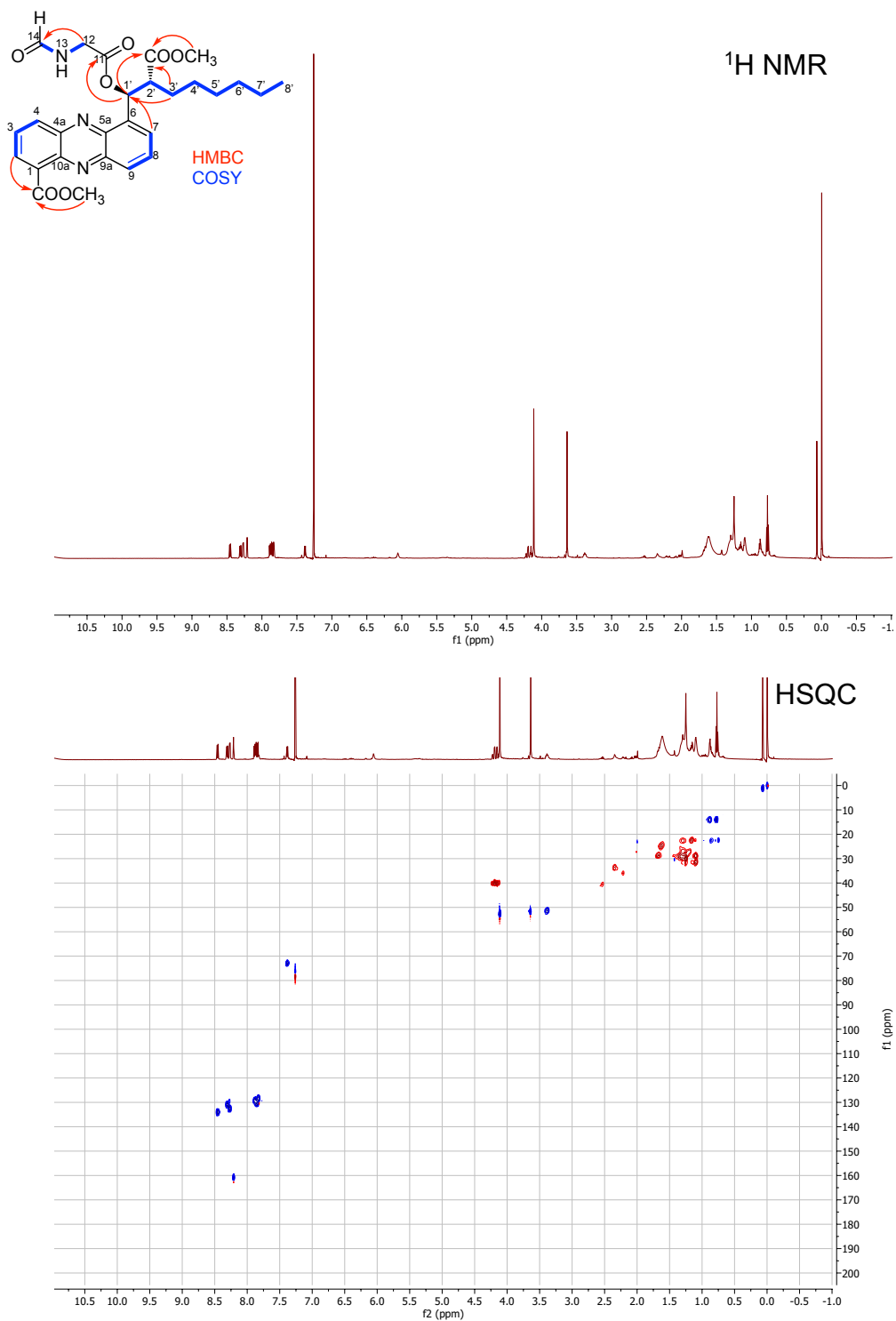
COSY

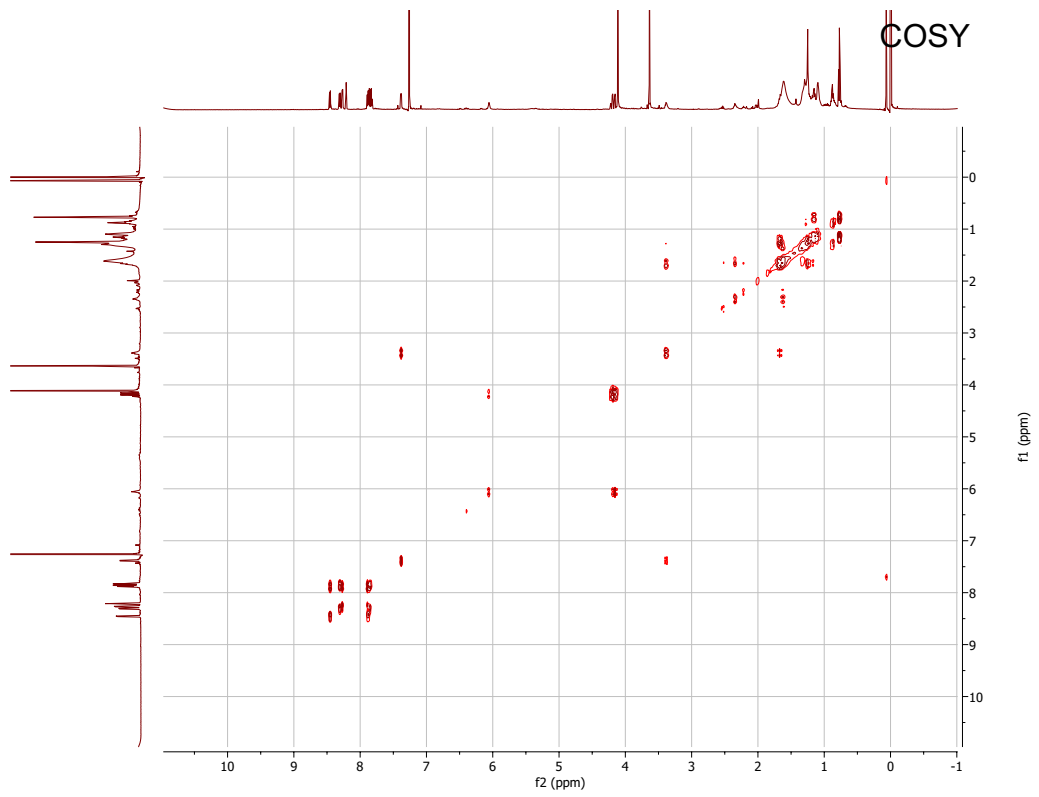
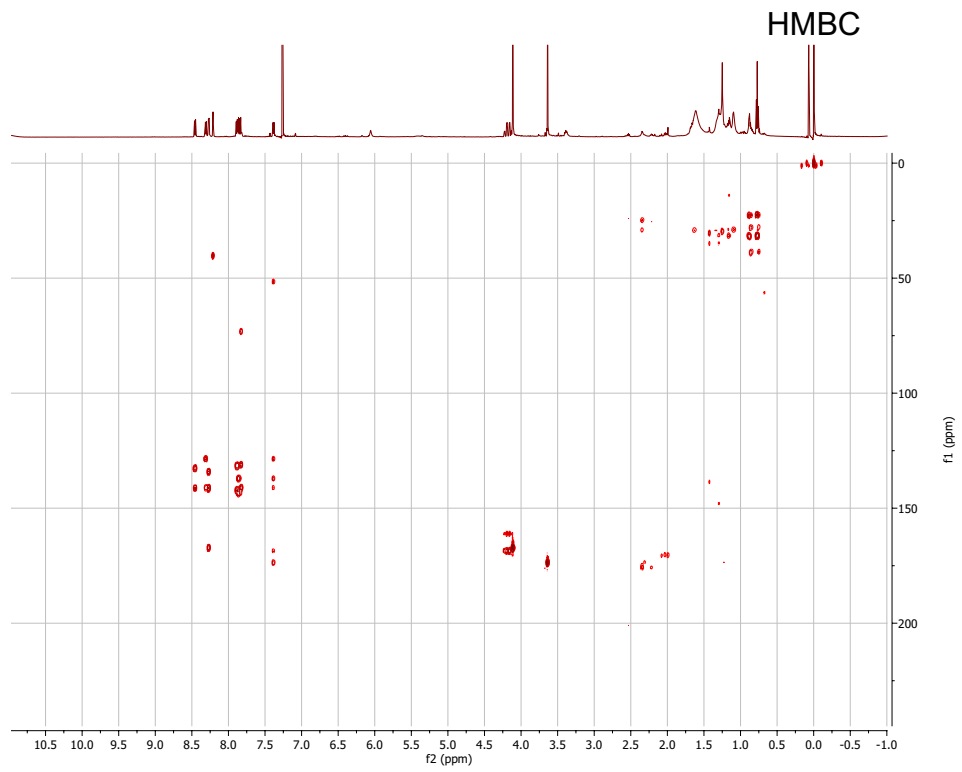


NMR spectroscopic data of compound **21** (streptophenazine R).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	136.6			
2	132.2	8.27 dd (1.46, 6.90)	4, 10a, 1-COOCH₃	3
3	129.5	7.9, m	1, 4a	2, 4
4	134.2	8.46 dd (1.44, 8.69)	2, 10a	3
4a	142			
5a	141.5			
6	137			
7	129.5	7.9, m	1', 5a, 9	8
8	129.5	7.9, m	6, 9a	7, 9
9	130.9	8.31 dd (1.54, 8.54)	7, 5a	8
9a	142			
10a	141.3			
11	168			
12	40.2	4.19 d (5.07); 4.16 d (5.13)	14	13
13		6.06 s		12, 14
14	161	8.21 s	12	13
1'	72.8	7.38 d (7.92)	2', 3', 5a, 6, 7, 11, 2'-COOCH₃	2'
2'	51.3	3.39 td (4.25, 9.11, 8.75)	1', 3', 2'-COOCH₃	1', 3'
3'	28.8	1.65, 1.27	1', 5', 2'-COOCH₃	2', 4'
4'	29.8	1.22	2', 5', 6'	3', 5'
5'	29.2	1.29	3', 6', 7'	4', 6'
6'	31.65	1.10	4', 8'	5', 7'
7'	22.5	1.16	5', 6', 8'	6', 8'
8'	14.1	0.77, t (7.2)	6', 7'	7'
1-COOCH₃	167.1			
1-COOCH₃	52.5	4.11 s	1-COOCH₃	
2'-COOCH₃	173.3			
2'-COOCH₃	51.6	3.64 s	2'-COOCH₃	

^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **21** (streptophenazine R).

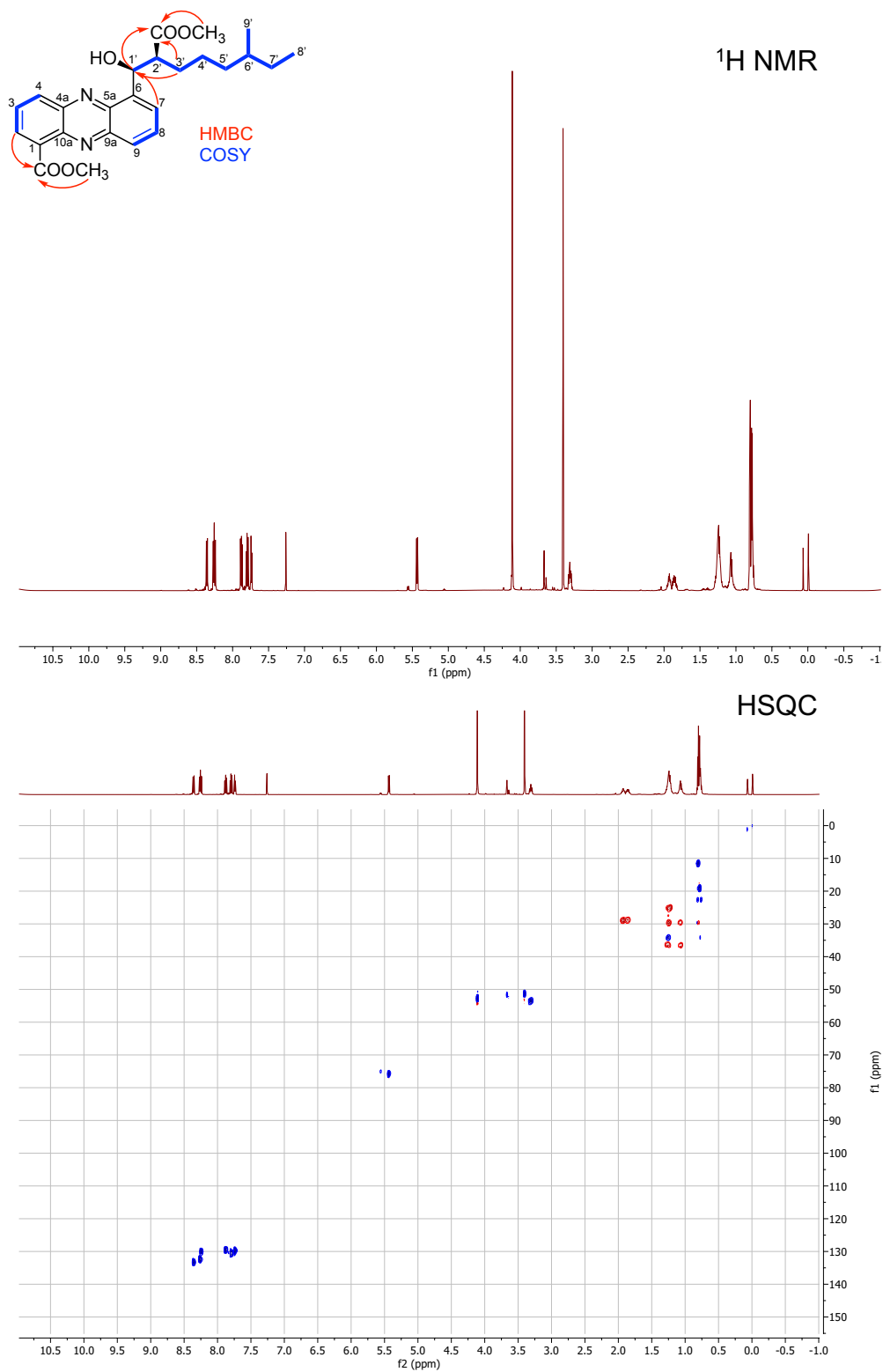


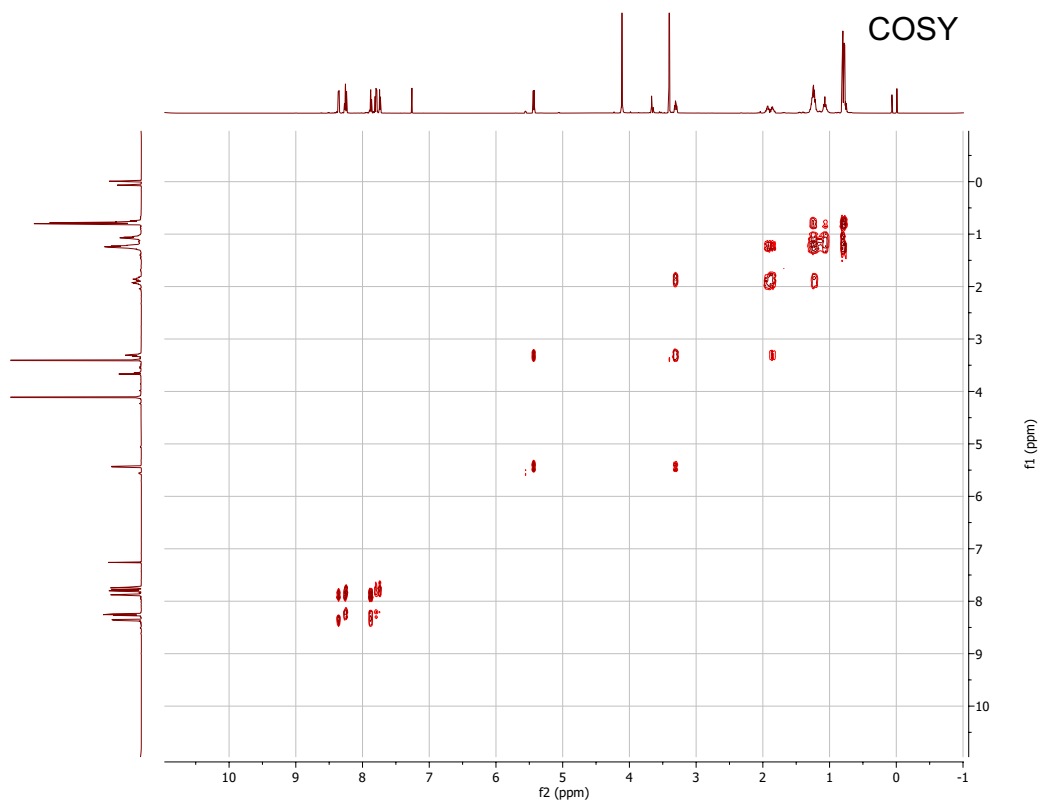
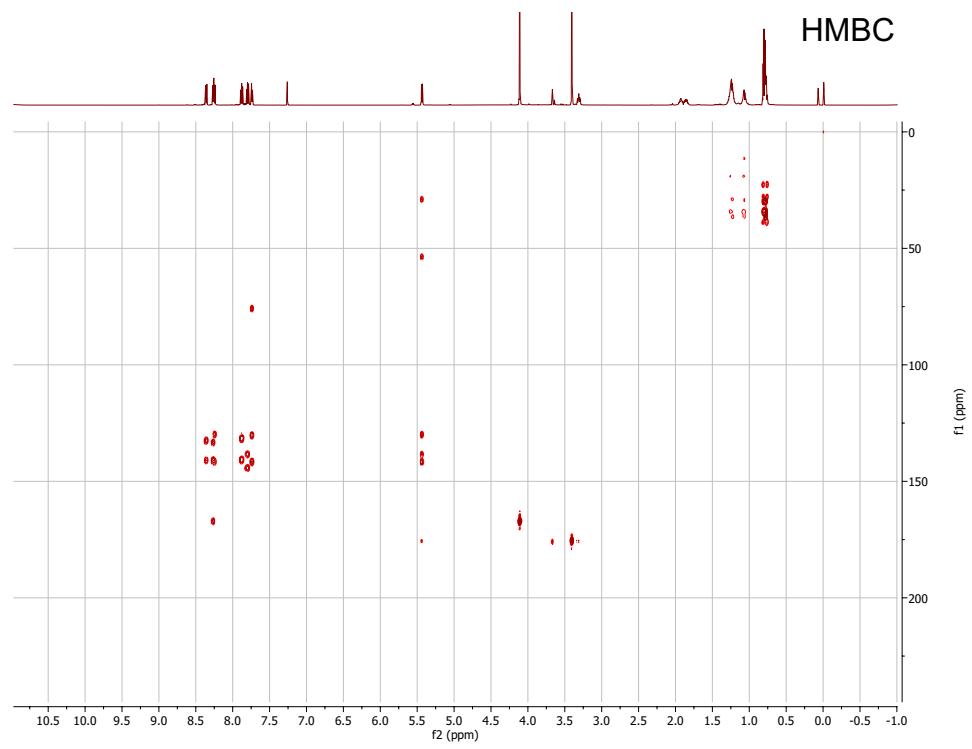


NMR spectroscopic data of compound **22** (diastereomer of streptophenazine G).

Position	δ_C	δ_H mult. (J)	HMBC	COSY
1	131.6			
2	132.5	8.26, ddd (1.44, 7.84, 10.14)	4, 10a, 1-COOCH₃	3
3	129.5	7.88, dd (6.91, 8.73)	1, 4a	2, 4
4	133.4	8.36, dd (1.44, 8.70)	2, 10a	3
4a	140.6			
5a	141.3			
6	138.2			
7	129.7	7.74 dt (1.09, 1.09, 6.75)	1', 5a, 9	8
8	130.4	7.8, dd (6.79, 8.73)	6, 9a	7, 9
9	130.1	8.25, ddd (1.44, 7.84, 10.14)	7, 5a	8
9a	144.4			
10a	140.8			
1'	76	5.43, d (7.71)	2', 3', 5a, 6, 7, 2'-COOCH₃	2'
2'	53.4	3.31, ddd (3.78, 7.72, 10.64)	1', 3', 6, 2'-COOCH₃	1', 3'
3'	28.9	1.93, 1.85	1', 2', 4', 5', 2'-COOCH₃	2', 4'
4'	25.22	1.23	2', 3', 5', 6'	3', 5'
5'	36.21	1.06, 1.26	3', 4', 6', 9'	4', 6'
6'	34.13	1.24	4', 5', 7', 8', 9'	5', 7', 9'
7'	29.61	1.07, 1.22	5', 8', 9'	6', 8'
8'	11.69	0.8	5', 6', 7'	6', 7'
9'	18.97	0.78	5', 6', 7'	6', 7'
1-COOCH₃	167.2			
1-COOCH₃	52.8	4.11, s	1-COOCH₃	
2'-COOCH₃	175.3			
2'-COOCH₃	51.5	3.4, s	12'-COOCH₃	

^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **22** (diastereomer of streptopenazine G).





NMR spectroscopic data of compound **23** (diastereomer of streptophenazine F).

Position	δ_c	δ_H mult. (J)	HMBC	COSY
1	131.8			
2	132.35	8.26, m	4, 10a, 1-COOCH₃	3
3	129.49	7.88, dd (6.91, 8.75)	1, 4a	2, 4
4	133.15	8.36, dd (1.44, 8.69)	2, 10a	3
4a	140.59			
5a	141.5			
6	138.7			
7	129.63	7.74, dt (1.09, 1.09, 6.91)	1', 5a, 9	8
8	130.53	7.8, dd (6.80, 8.74)	6, 9a	7, 9
9	130.01	8.25, m	7, 5a	8
9a	144.26			
10a	140.96			
1'	75.6	5.43, d (7.76)	2', 3', 5a, 6, 7, 2'-COOCH₃	2'
2'	53.41	3.30, ddd (3.69, 7.74, 11.34)	1', 3', 2'-COOCH₃	1', 3'
3'	28.5	1.85, 1.95	2', 5'	2', 4'
4'	27.91	1.25	2', 4', 6'	3', 5'
5'	27.65	1.19	3', 4', 6', 7'	4', 6'
6'	38.9	1.11	4', 8'/9'	5', 7'
7'	28.02	1.45 dt (6.62, 6.62, 13.35)	5', 6', 8'/9'	6', 7'/8'
8'	22.62	0.81 dd (2.99, 6.61)	6', 7', 9'	7'
9'	22.62	0.81 dd (2.99, 6.61)	6', 7', 8'	7'
1-COOCH₃	167.4			
1-COOCH₃	52.99	4.11, s	1-COOCH₃	
2'-COOCH₃	175.49			
2'-COOCH₃	51.38	3.4, s	2'-COOCH₃	

^1H , HSQC, HMBC, and COSY NMR spectra and key HMBC and COSY correlations of compound **23** (diastereomer of streptophenazine F).

