

Electronic Supplementary Information

Cyclization vs. Cyclization / Dimerization in *o*-amidostilbene Radical Cation Cascade Reactions : The Amide Question (Spectral Data)

Chin Hui Kee, Azhar Ariffin, Khalijah Awang, Ibrahim Noorbatchesa,
Koichi Takeya, Hiroshi Morita, Chuan Gee Lim and Noel Francis Thomas*
noelfthomas@um.edu.my

Contents

List of Figures

S1	¹ H spectrum (CDCl ₃ , 400MHz) of 14a	3
S2	¹³ C spectrum (CDCl ₃ , 100MHz) of 14a	4
S3	HSQC spectrum (CDCl ₃ , 400MHz) of 14a	5
S4	HMBC spectrum (CDCl ₃ , 400MHz) of 14a	6
S5	¹ H spectrum (CDCl ₃ , 400MHz) of (±) 14b	7
S6	¹³ C spectrum (CDCl ₃ , 100MHz) of (±) 14b	8
S7	HSQC spectrum (CDCl ₃ , 400MHz) of (±) 14b	9
S8	HMBC spectrum (CDCl ₃ , 400MHz) of (±) 14b	10
S9	H2BC spectrum (CDCl ₃ , 400MHz) of (±) 14b	11
S10	¹ H spectrum (CDCl ₃ , 400MHz) of 15	12
S11	¹³ C spectrum (CDCl ₃ , 100MHz) of 15	13
S12	HSQC spectrum (CDCl ₃ , 400MHz) of 15	14
S13	HMBC spectrum (CDCl ₃ , 400MHz) of 15	15
S14	¹ H spectrum (CDCl ₃ , 400MHz) of 16	16
S15	¹³ C spectrum (CDCl ₃ , 100MHz) of 16	17
S16	HSQC spectrum (CDCl ₃ , 400MHz) of 16	18
S17	HMBC spectrum (CDCl ₃ , 400MHz) of 16	19
S18	H2BC spectrum (CDCl ₃ , 400MHz) of 16	20
S19	¹ H spectrum (CDCl ₃ , 400MHz) of 17	21
S20	¹³ C spectrum (CDCl ₃ , 100MHz) of 17	22

S21	HMQC spectrum (CDCl ₃ , 400MHz) of 17 .	23
S22	HMBC spectrum (CDCl ₃ , 400MHz) of 17 .	24
S23	¹ H spectrum (CDCl ₃ , 400MHz) of 18 .	25
S24	¹³ C spectrum (CDCl ₃ , 100MHz) of 18 .	26
S25	HSQC spectrum (CDCl ₃ , 400MHz) of 18 .	27
S26	HMBC spectrum (CDCl ₃ , 400MHz) of 18 .	28
S27	HMBC spectrum (CDCl ₃ , 400MHz) of 18 (expanded).	29
S28	¹ H spectrum (CDCl ₃ , 400MHz) of 19 .	30
S29	¹³ C spectrum (CDCl ₃ , 100MHz) of 19 .	31
S30	HSQC spectrum (CDCl ₃ , 400MHz) of 19 .	32
S31	HMBC spectrum (CDCl ₃ , 400MHz) of 19 .	33
S32	¹ H spectrum (CDCl ₃ , 400MHz) of 20a .	34
S33	¹³ C spectrum (CDCl ₃ , 100MHz) of 20a .	35
S34	HSQC spectrum (CDCl ₃ , 400MHz) of 20a .	36
S35	HMBC spectrum (CDCl ₃ , 400MHz) of 20a .	37
S36	H2BC spectrum (CDCl ₃ , 400MHz) of 20a .	38
S37	¹ H spectrum (CDCl ₃ , 400MHz) of (±) 20b .	39
S38	¹³ C spectrum (CDCl ₃ , 100MHz) of (±) 20b .	40
S39	HSQC spectrum (CDCl ₃ , 400MHz) of (±) 20b .	41
S40	HMBC spectrum (CDCl ₃ , 400MHz) of (±) 20b .	42
S41	H2BC spectrum (CDCl ₃ , 400MHz) of (±) 20b .	43
S42	¹ H spectrum (CDCl ₃ , 400MHz) of 21a .	44
S43	¹³ C spectrum (CDCl ₃ , 100MHz) of 21a .	45
S44	HSQC spectrum (CDCl ₃ , 400MHz) of 21a .	46
S45	HMBC spectrum (CDCl ₃ , 400MHz) of 21a .	47
S46	¹ H spectrum (CDCl ₃ , 400MHz) of (±) 21b .	48
S47	¹³ C spectrum (CDCl ₃ , 100MHz) of (±) 21b .	49
S48	HSQC spectrum (CDCl ₃ , 400MHz) of (±) 21b .	50
S49	HMBC spectrum (CDCl ₃ , 400MHz) of (±) 21b .	51
S50	H2BC spectrum (CDCl ₃ , 400MHz) of (±) 21b .	52

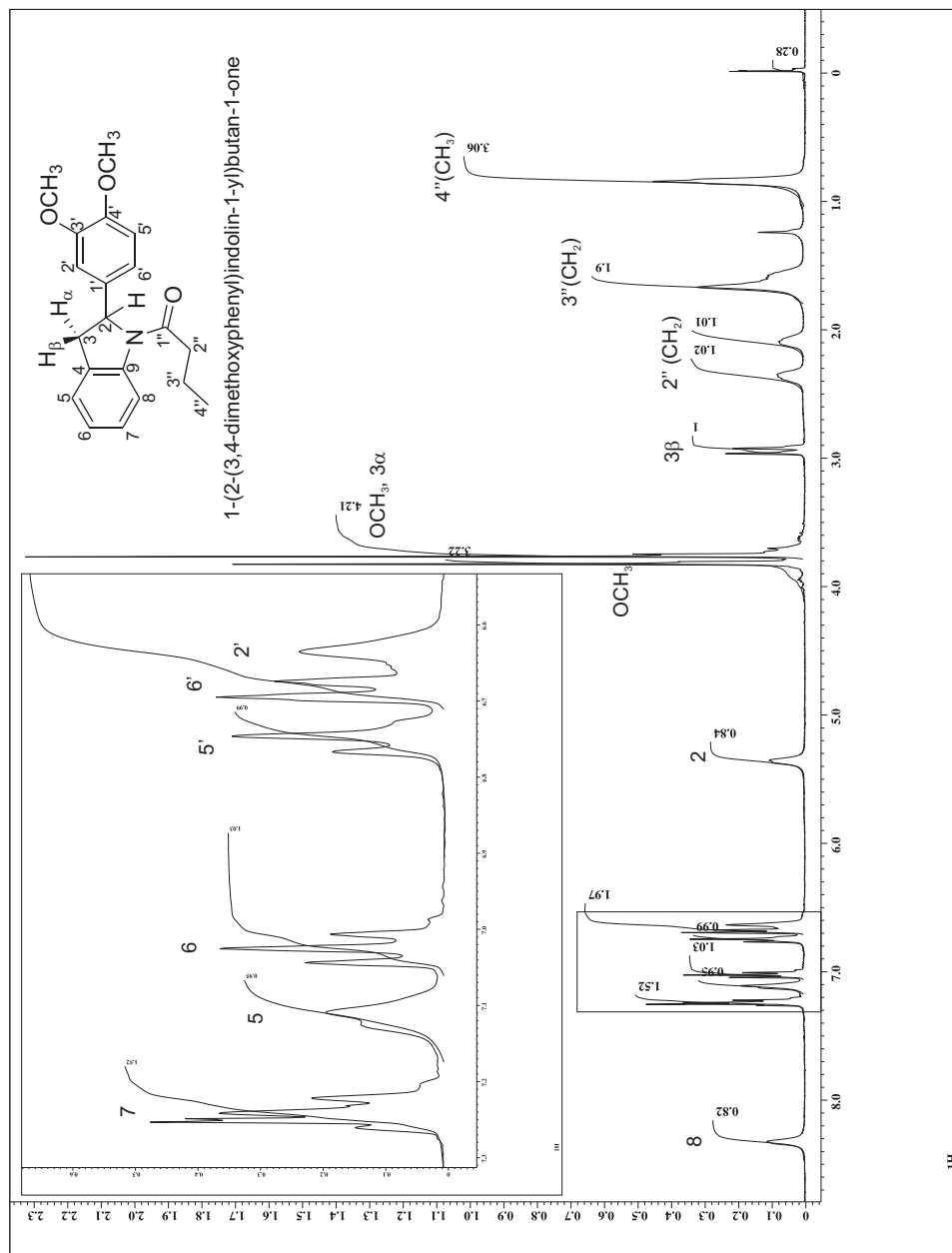


Figure S1: 1H spectrum (CDCl₃, 400MHz) of **14a**.

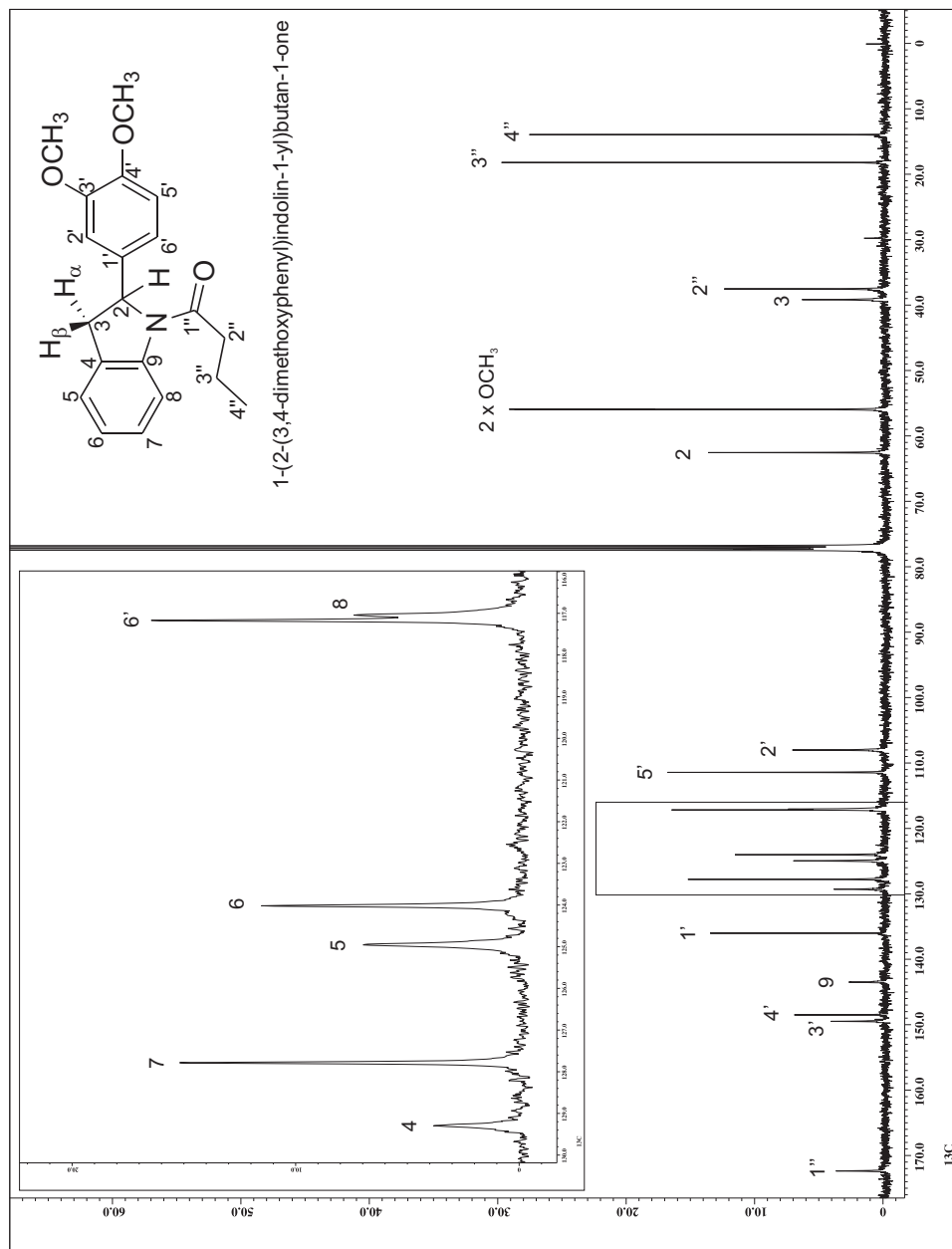


Figure S2: ¹³C spectrum (CDCl₃, 100MHz) of **14a**.

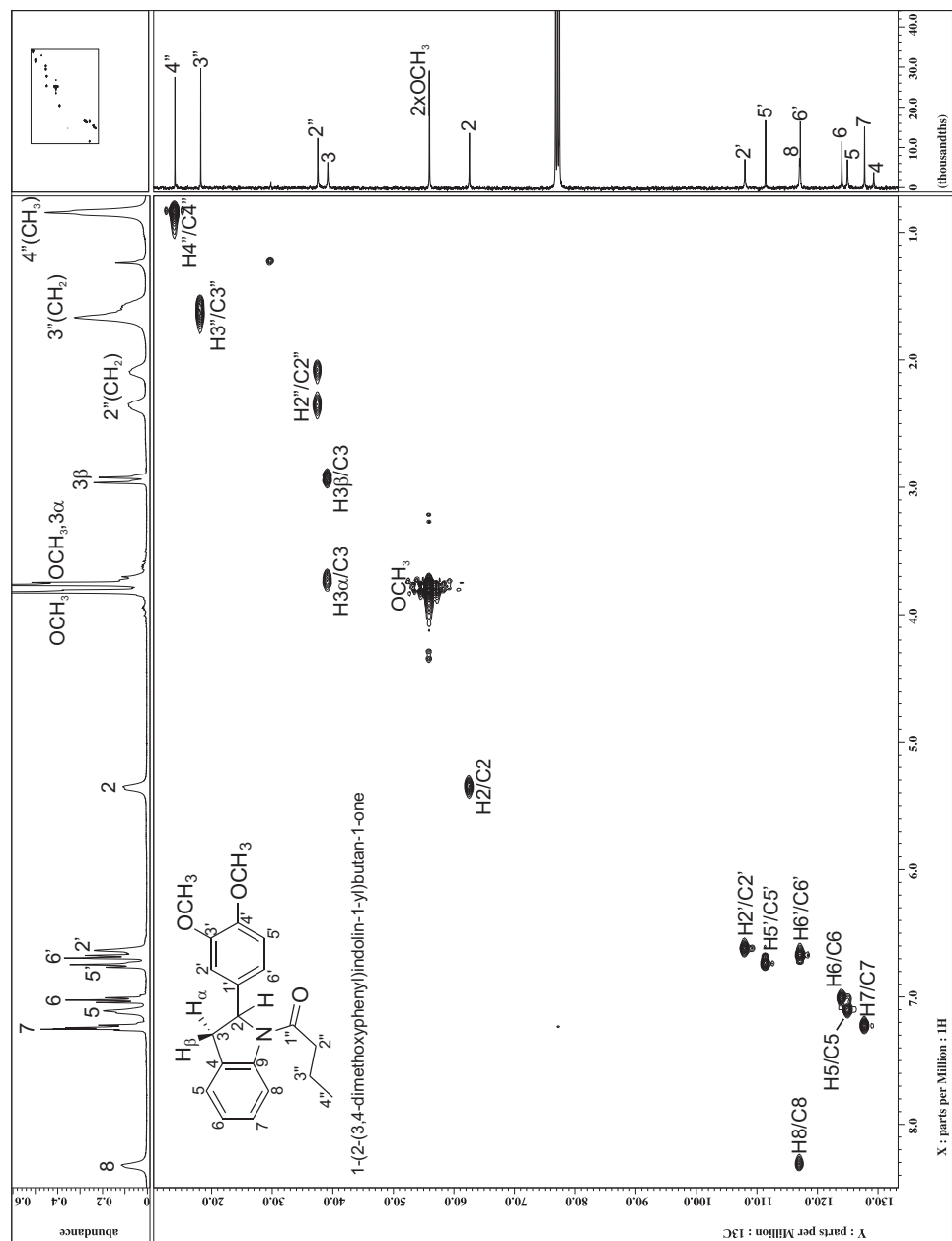


Figure S3: HSQC spectrum (CDCl₃, 400MHz) of **14a**.

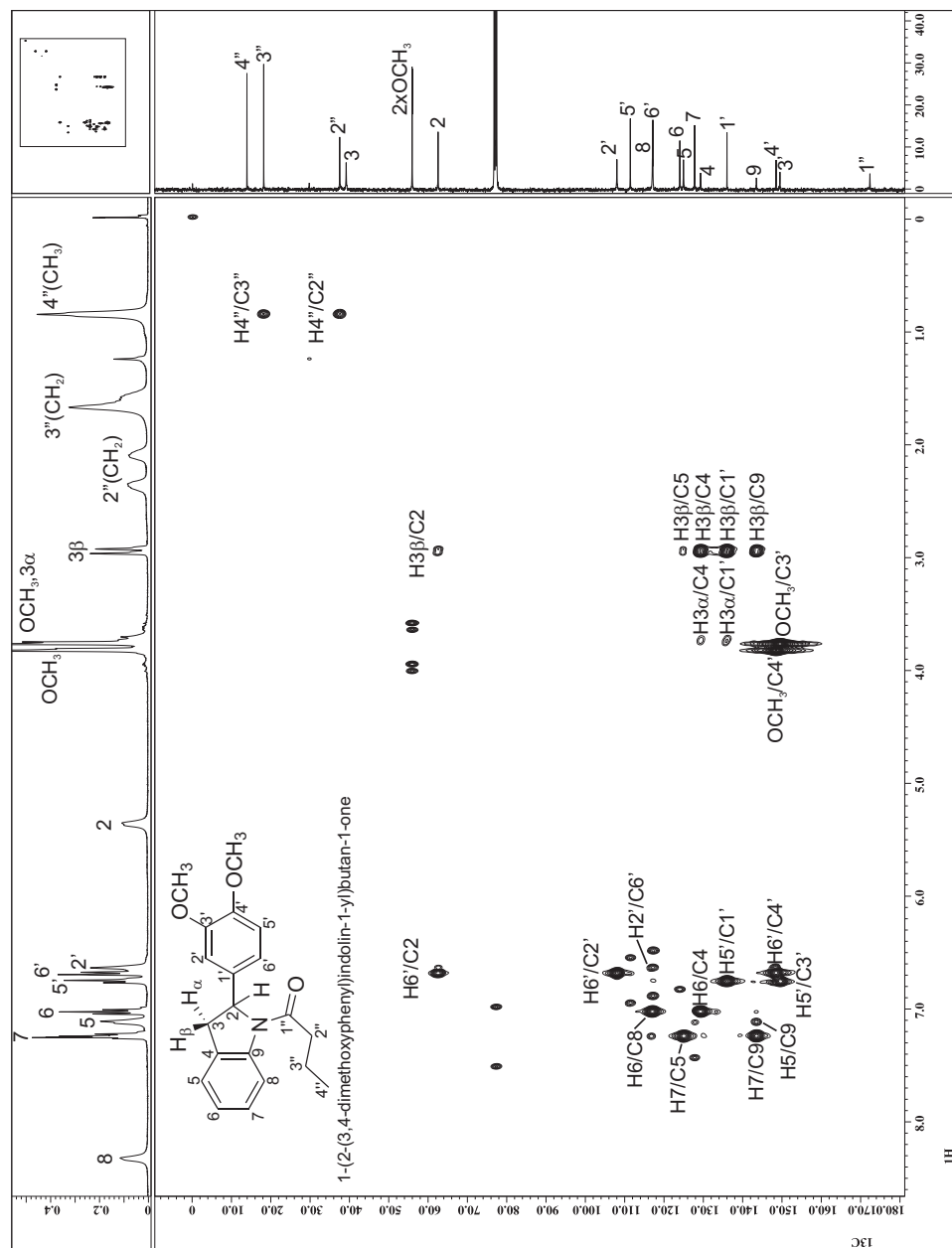


Figure S4: HMBC spectrum (CDCl_3 , 400MHz) of **14a**.

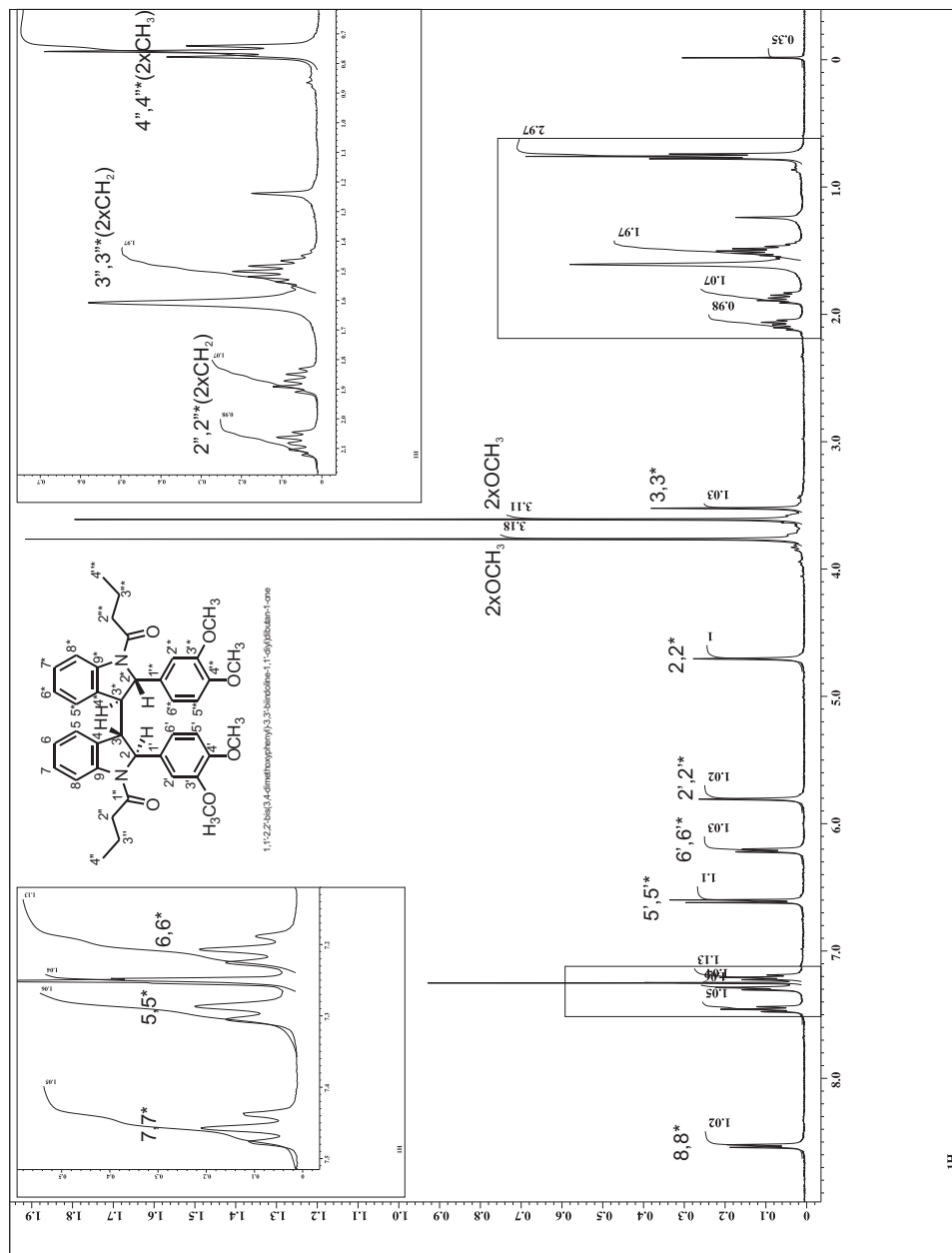


Figure S5: ¹H spectrum (CDCl₃, 400MHz) of (±)**14b**.

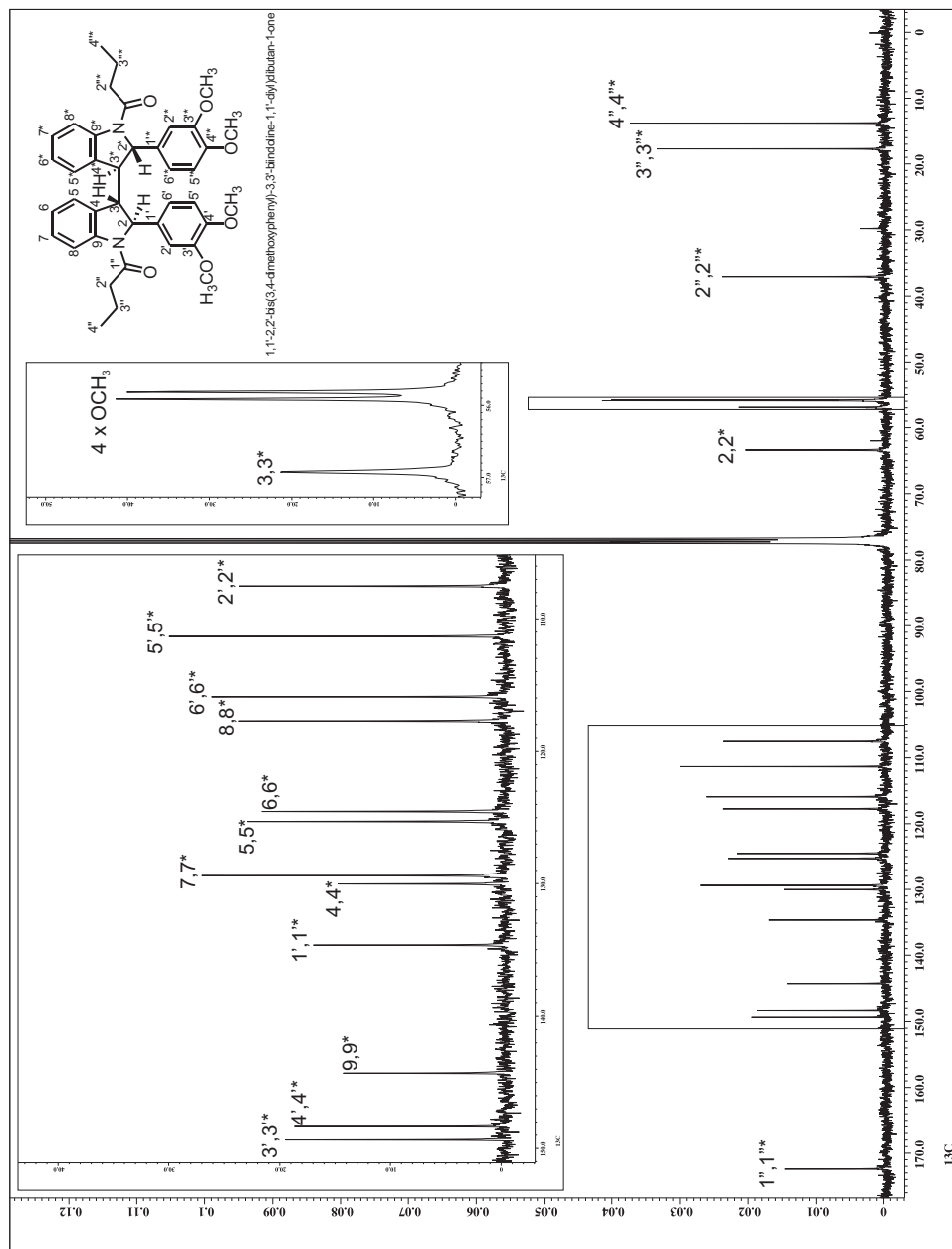


Figure S6: ¹³C spectrum (CDCl₃, 100MHz) of (±)14b.

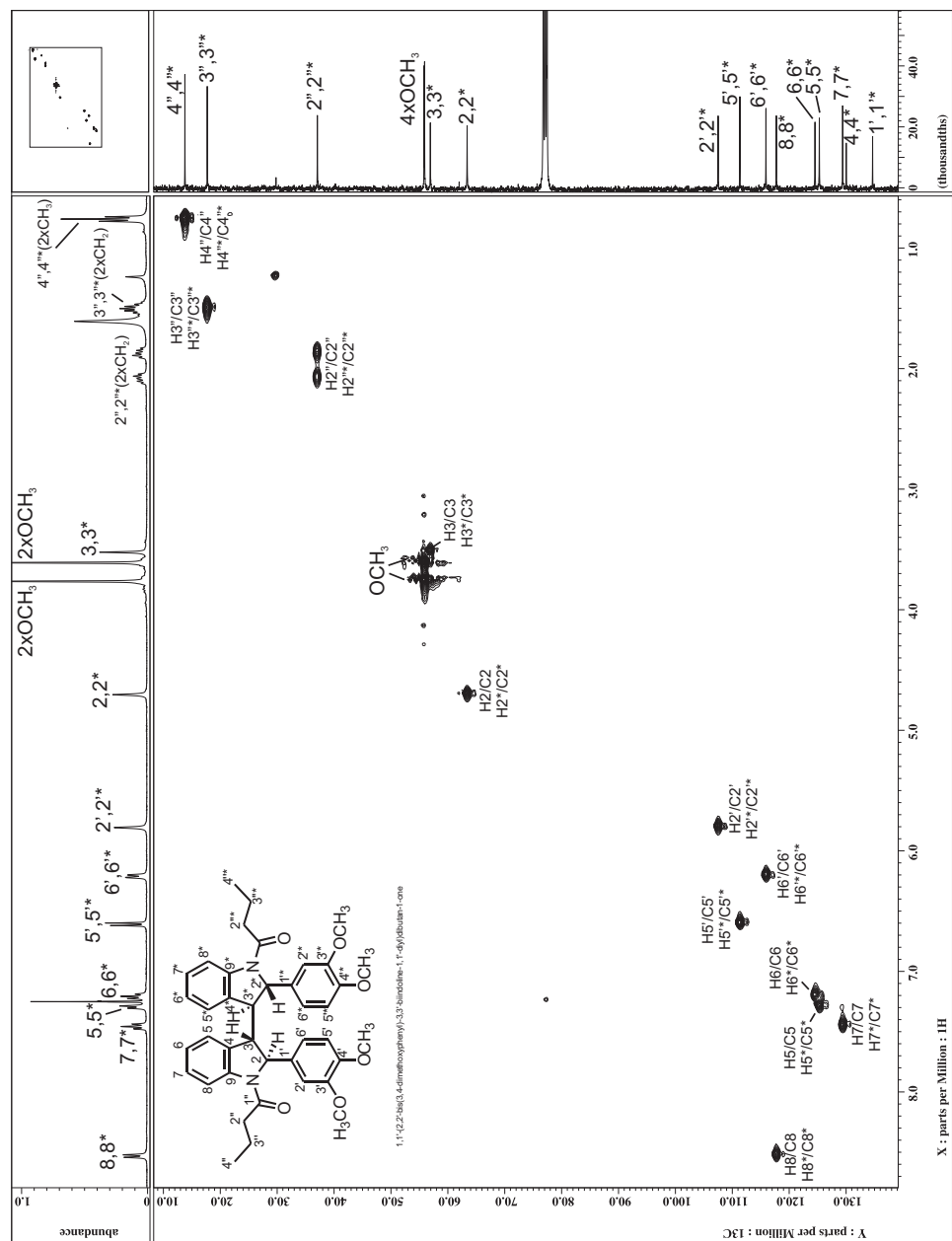


Figure S7: HSQC spectrum (CDCl₃, 400MHz) of (±)14b.

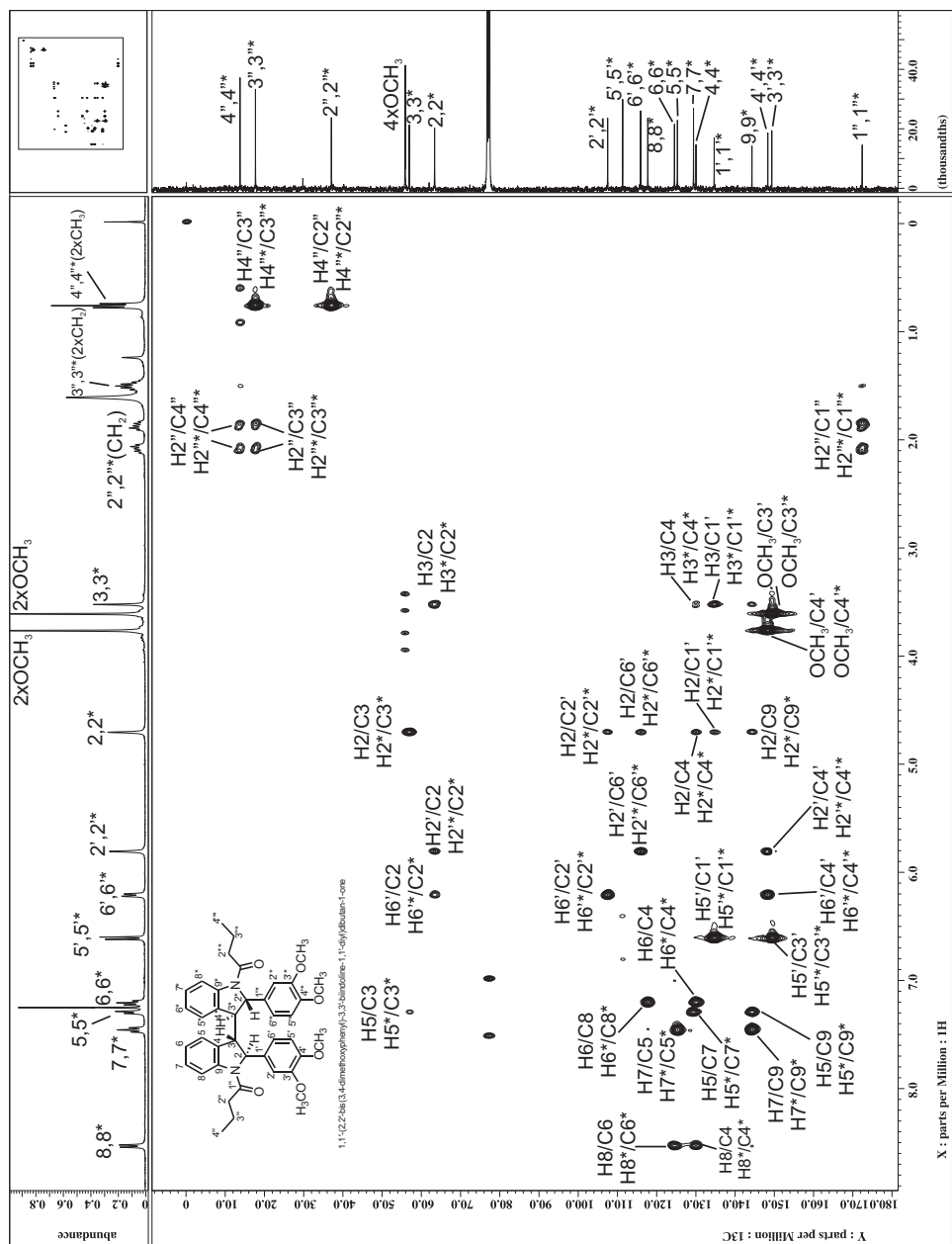
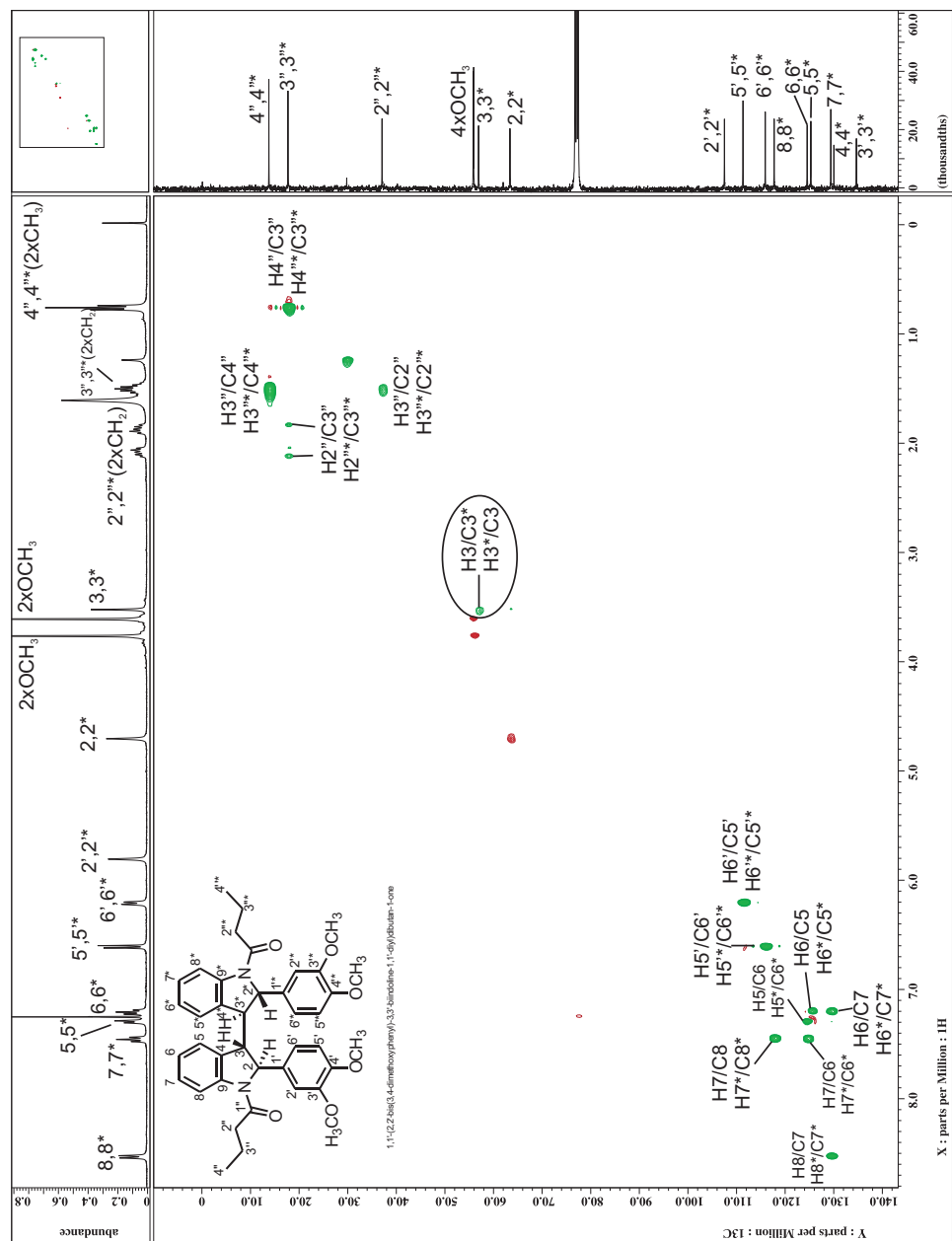


Figure S8: HMBC spectrum (CDCl_3 , 400MHz) of (\pm)**14b**.



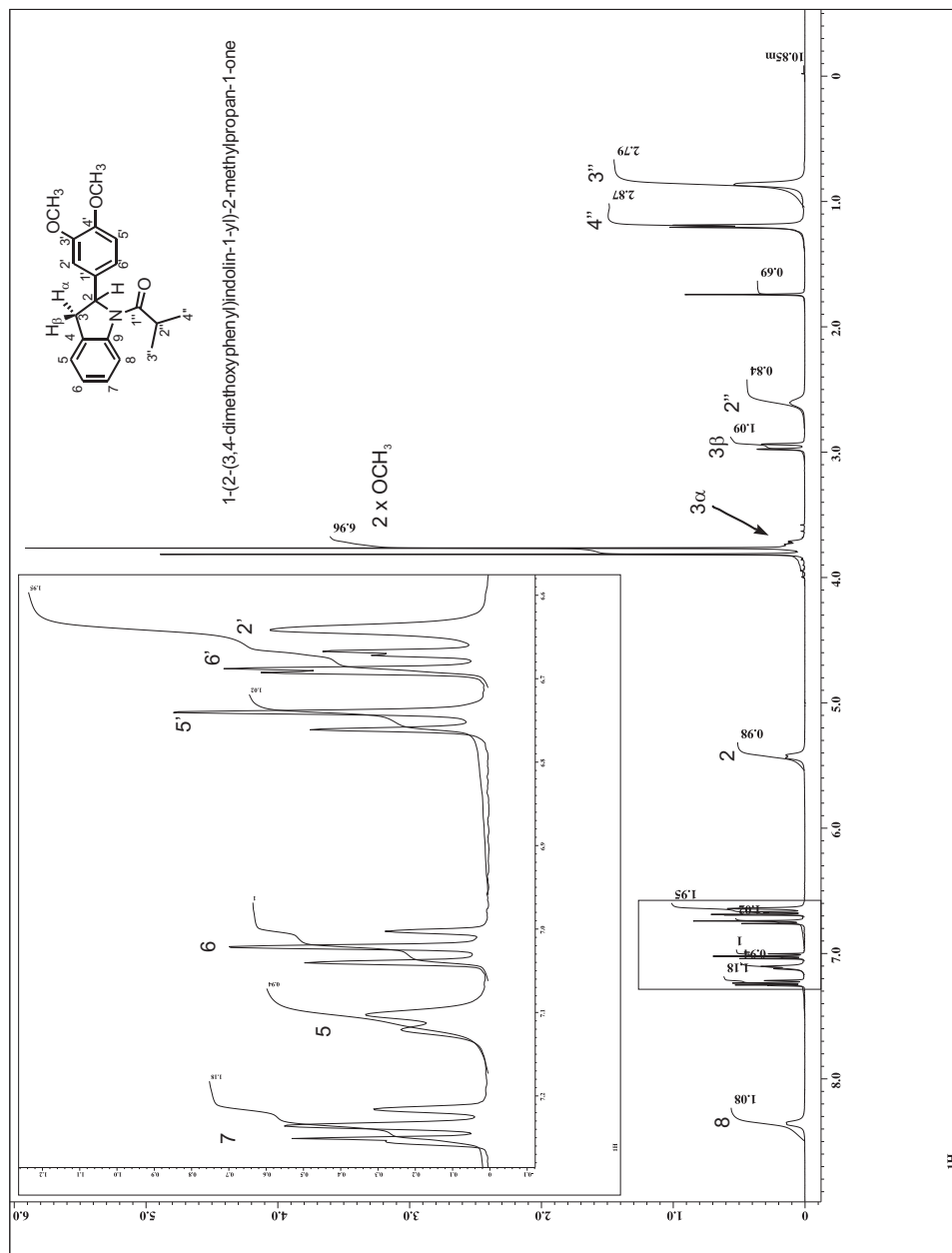


Figure S10: ¹H spectrum (CDCl₃, 400MHz) of **15**.

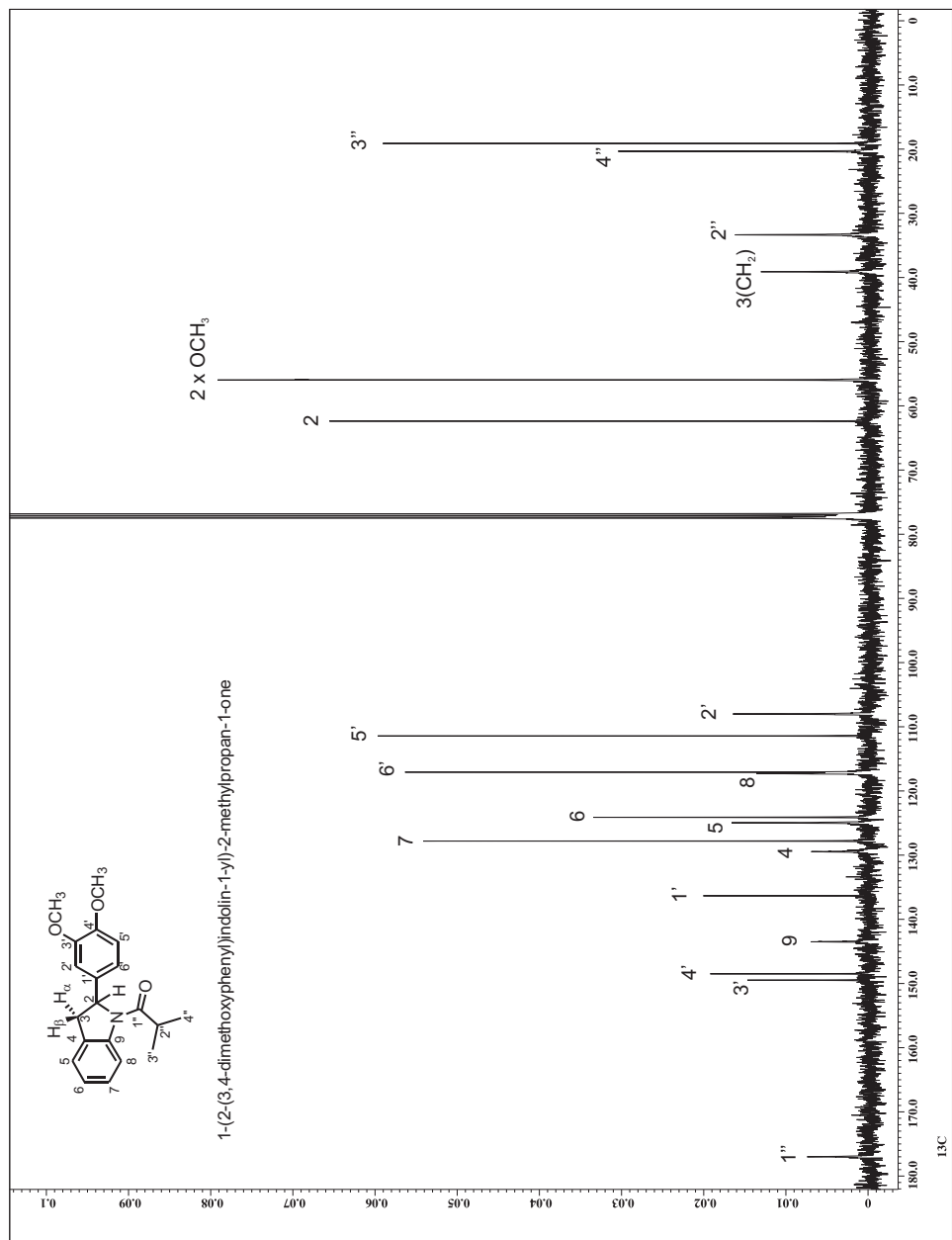


Figure S11: ¹³C spectrum (CDCl₃, 100MHz) of **15**.

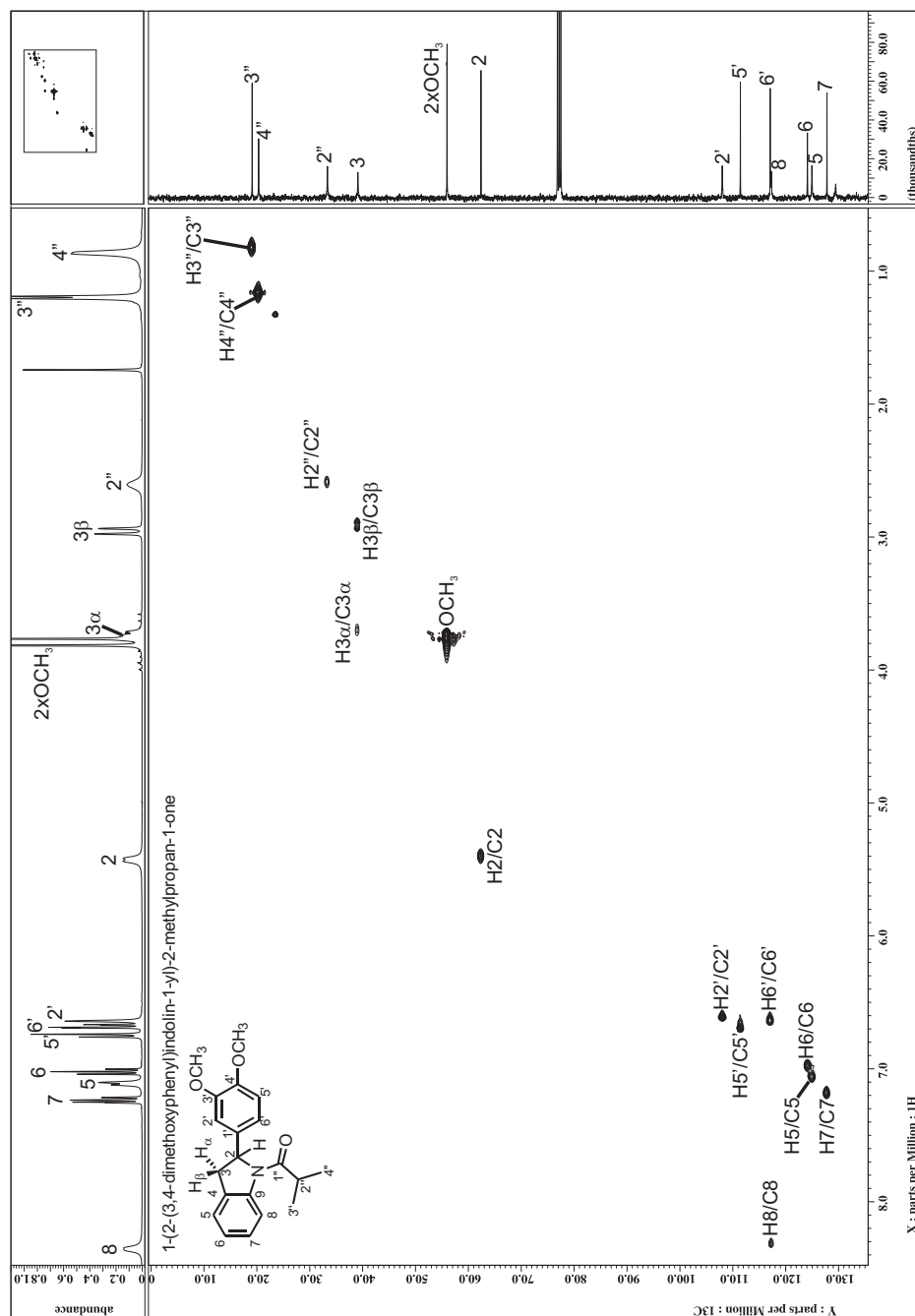


Figure S12: HSQC spectrum (CDCl₃, 400MHz) of **15**.

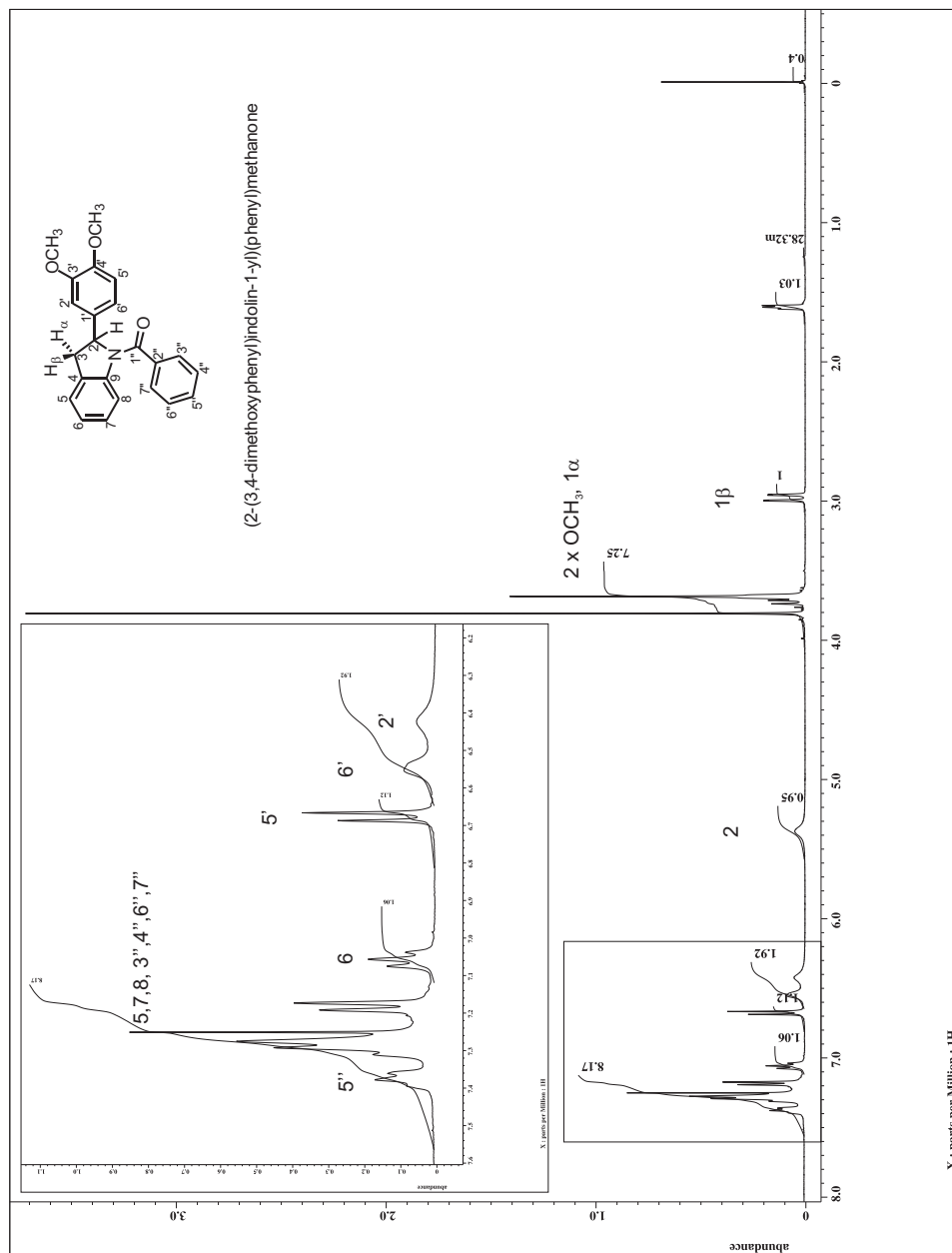


Figure S14: ¹H spectrum (CDCl₃, 400MHz) of **16**.

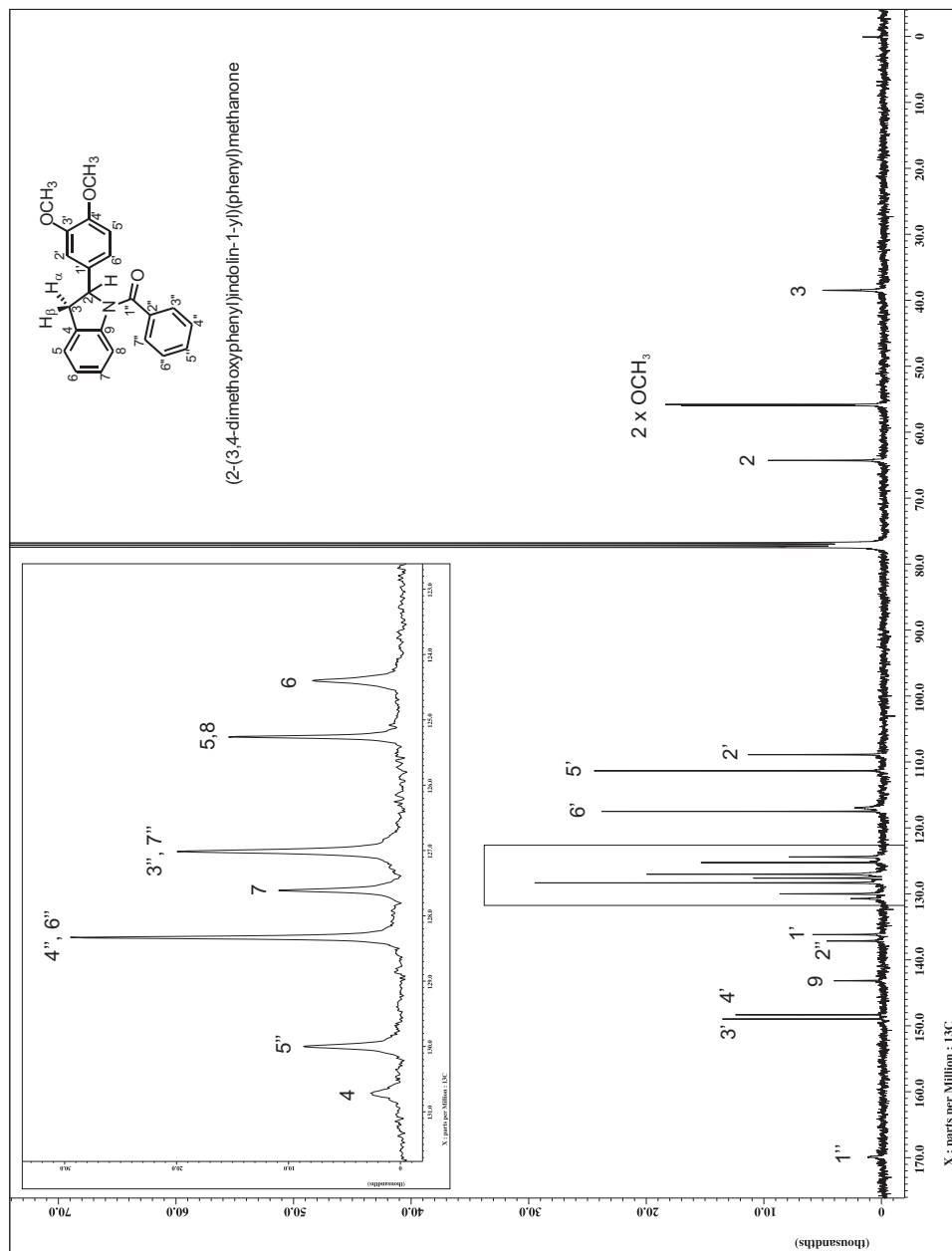


Figure S15: ¹³C spectrum (CDCl₃, 100MHz) of **16**.

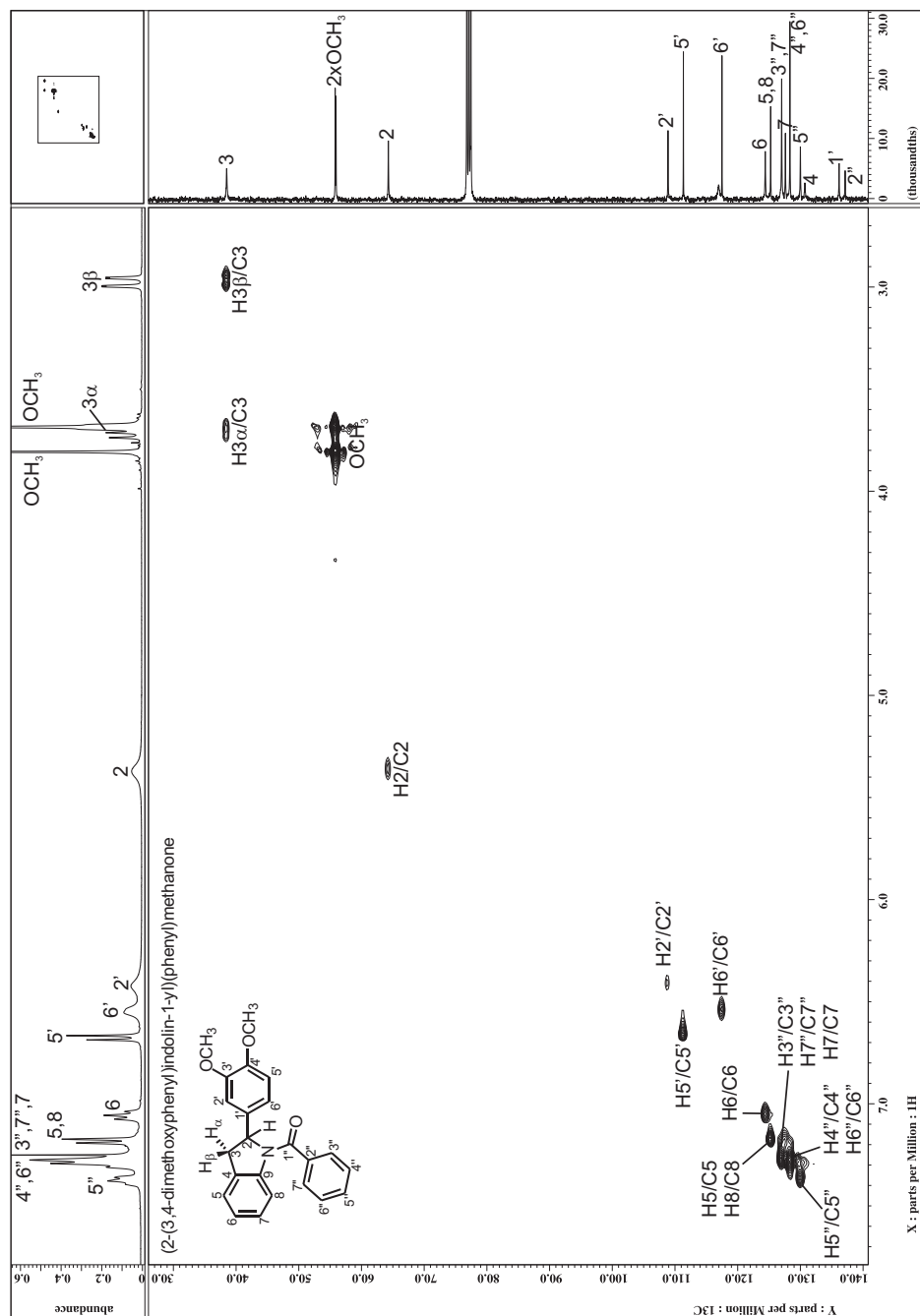


Figure S16: HSQC spectrum (CDCl₃, 400MHz) of **16**.

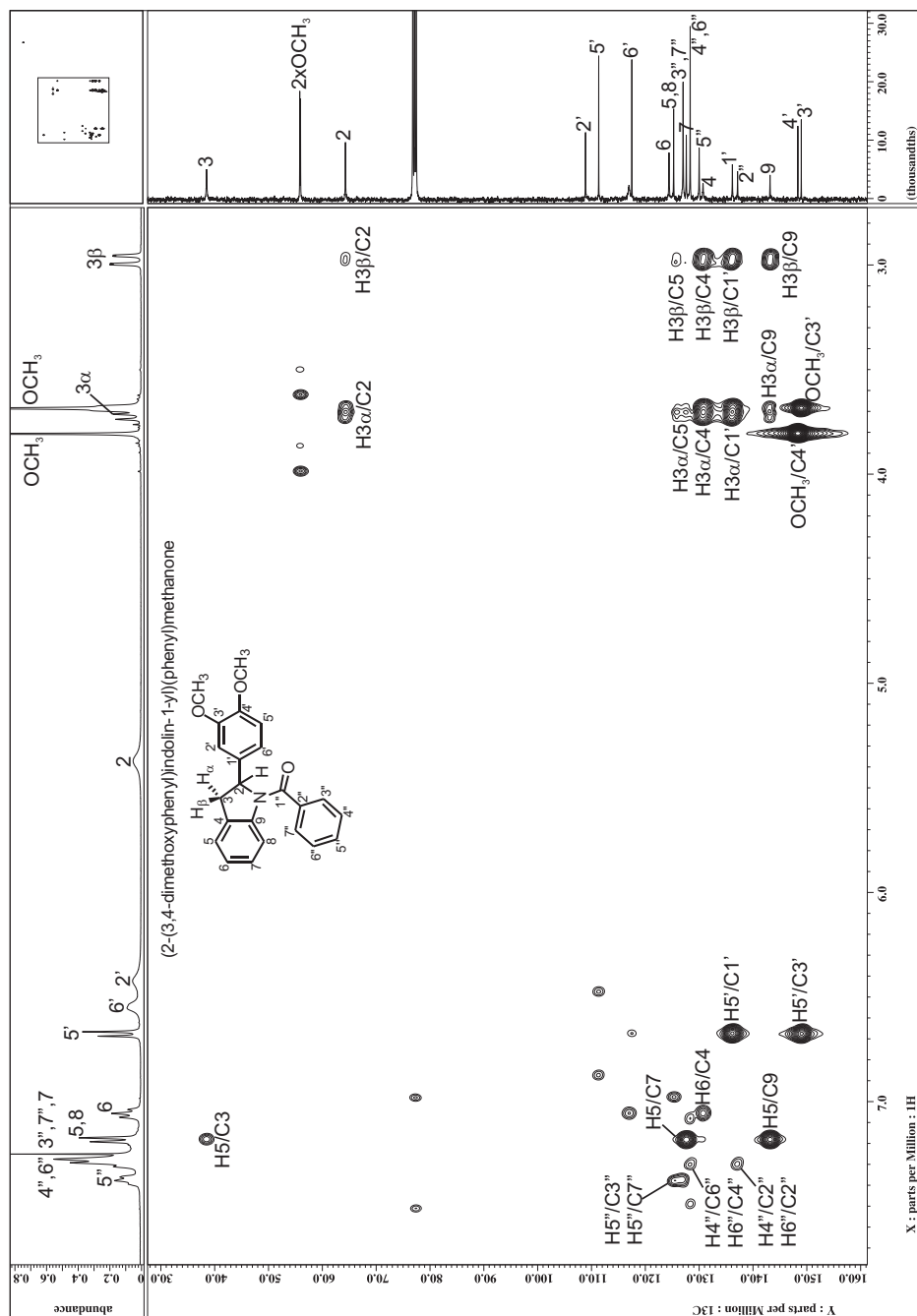


Figure S17: HMBC spectrum (CDCl_3 , 400MHz) of **16**.

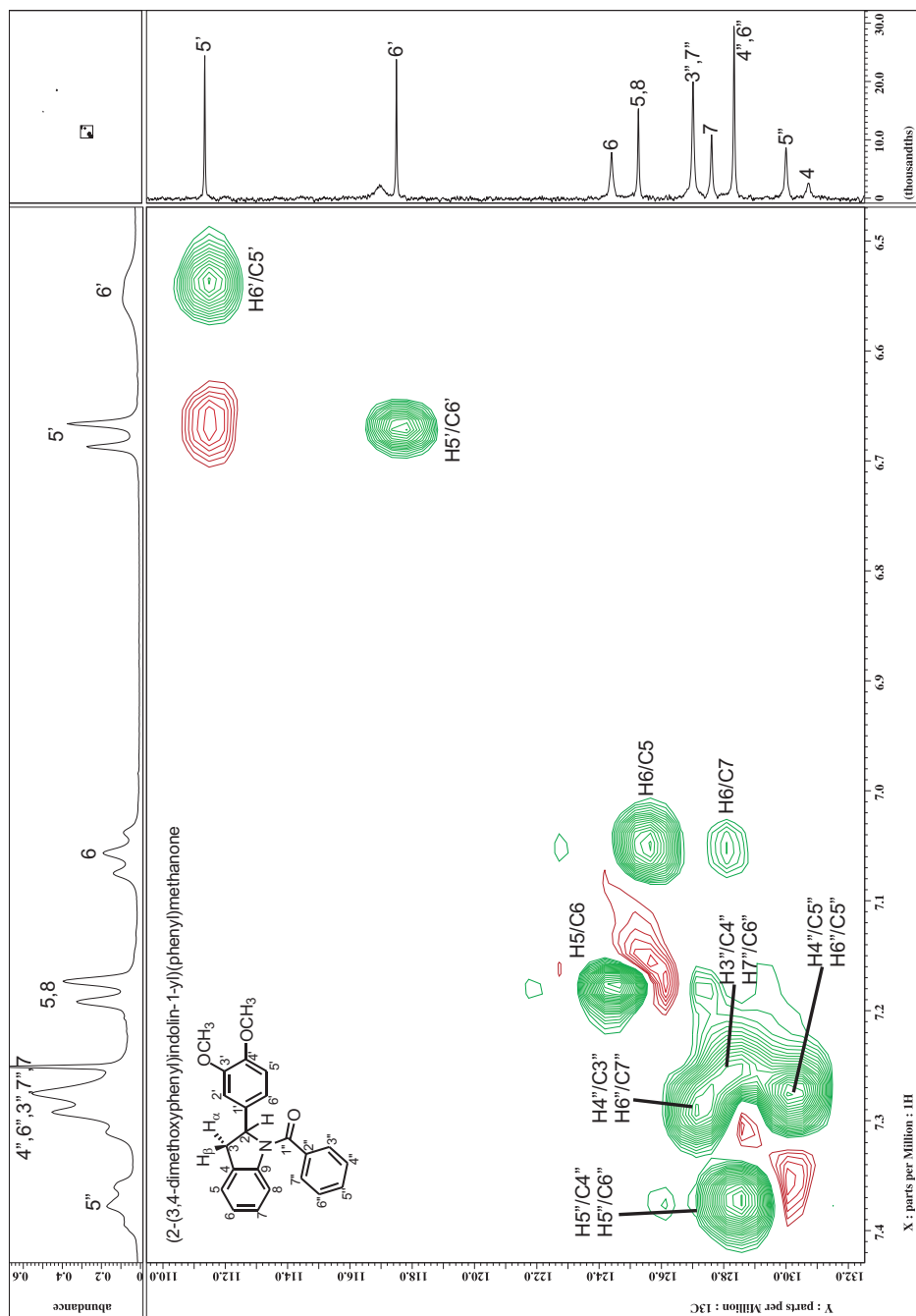


Figure S18: H2BC spectrum (CDCl₃, 400MHz) of 16.

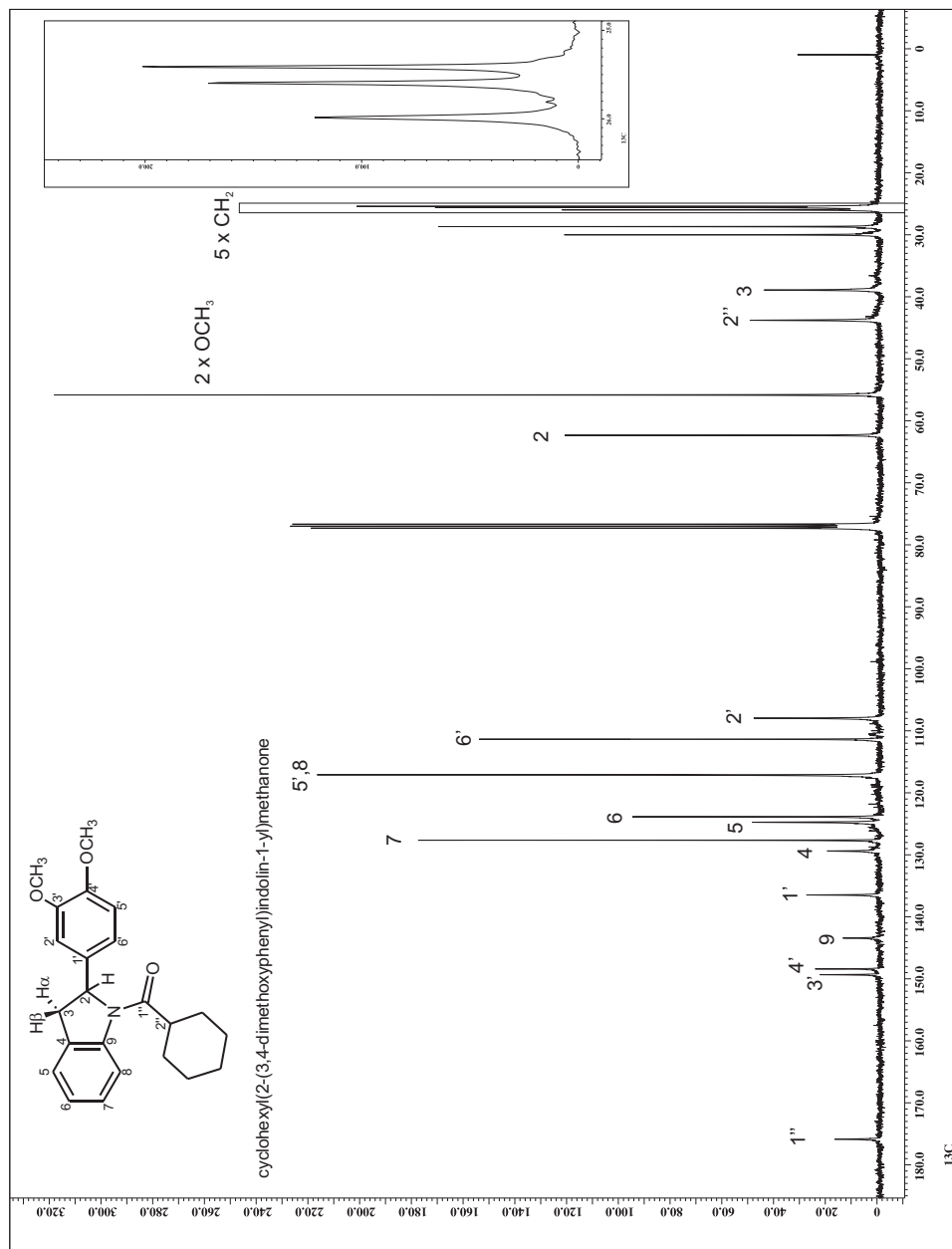


Figure S20: ¹³C spectrum (CDCl₃, 100MHz) of **17**.

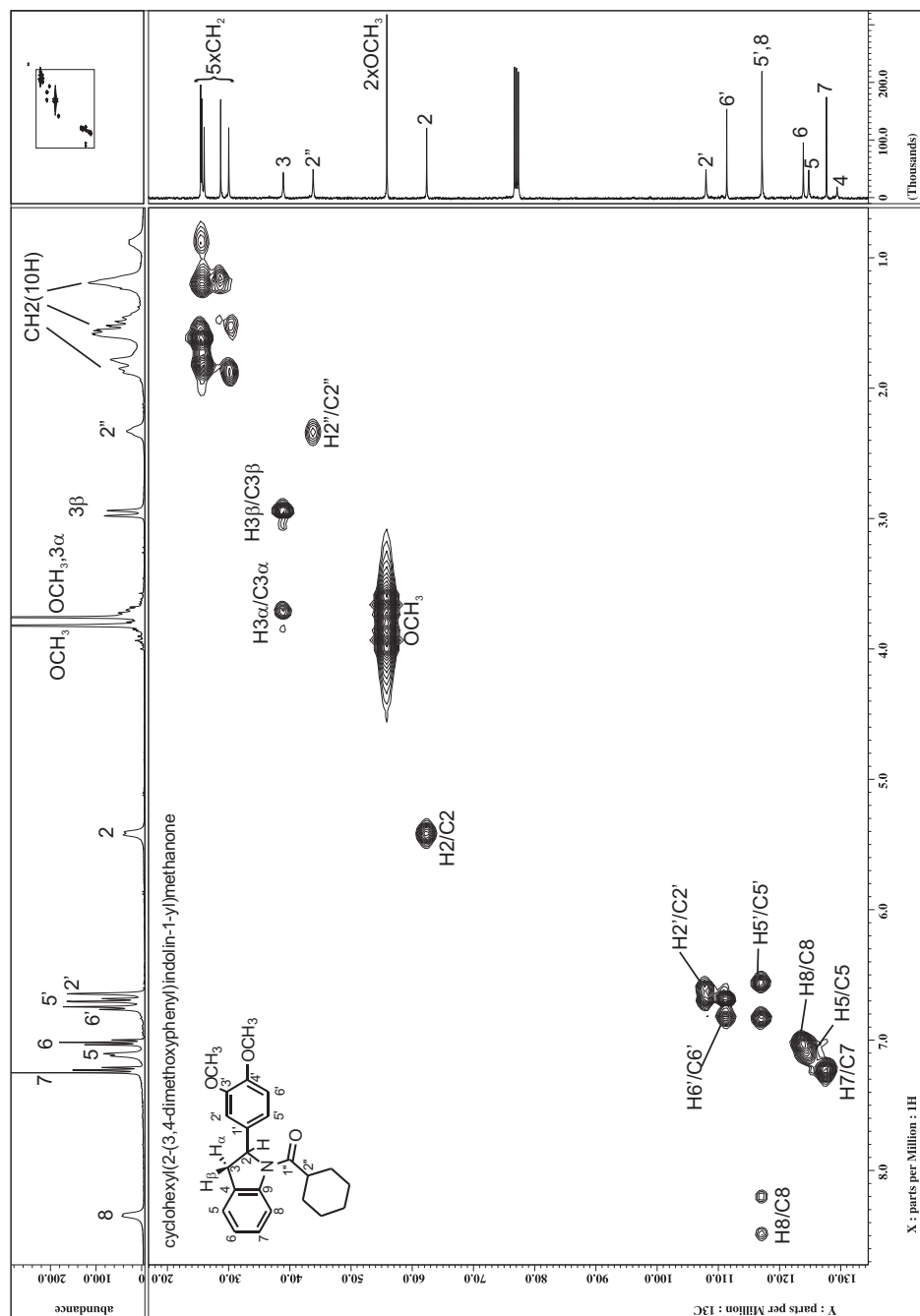


Figure S21: HMQC spectrum (CDCl₃, 400MHz) of **17**.

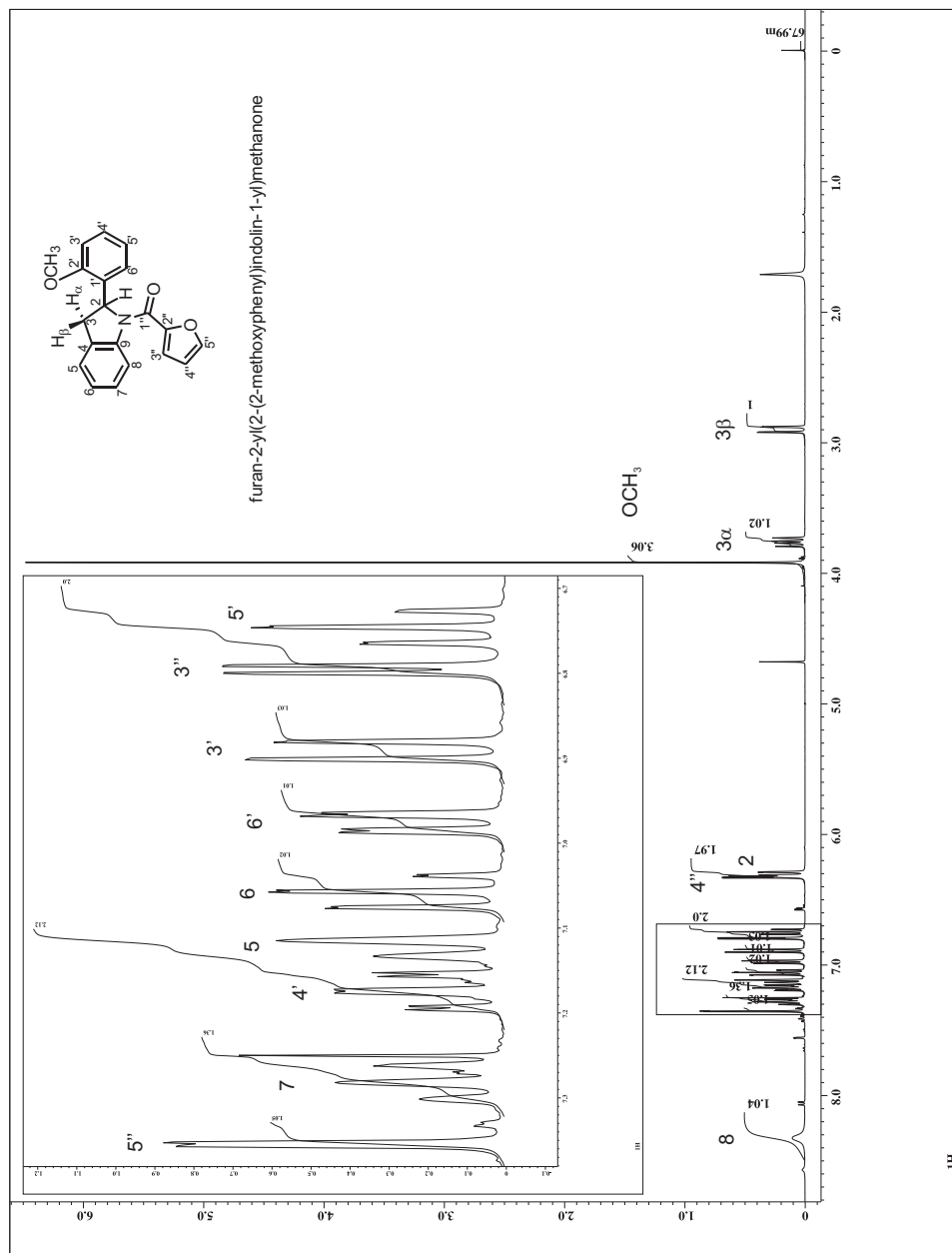


Figure S23: ¹H spectrum (CDCl₃, 400MHz) of **18**.

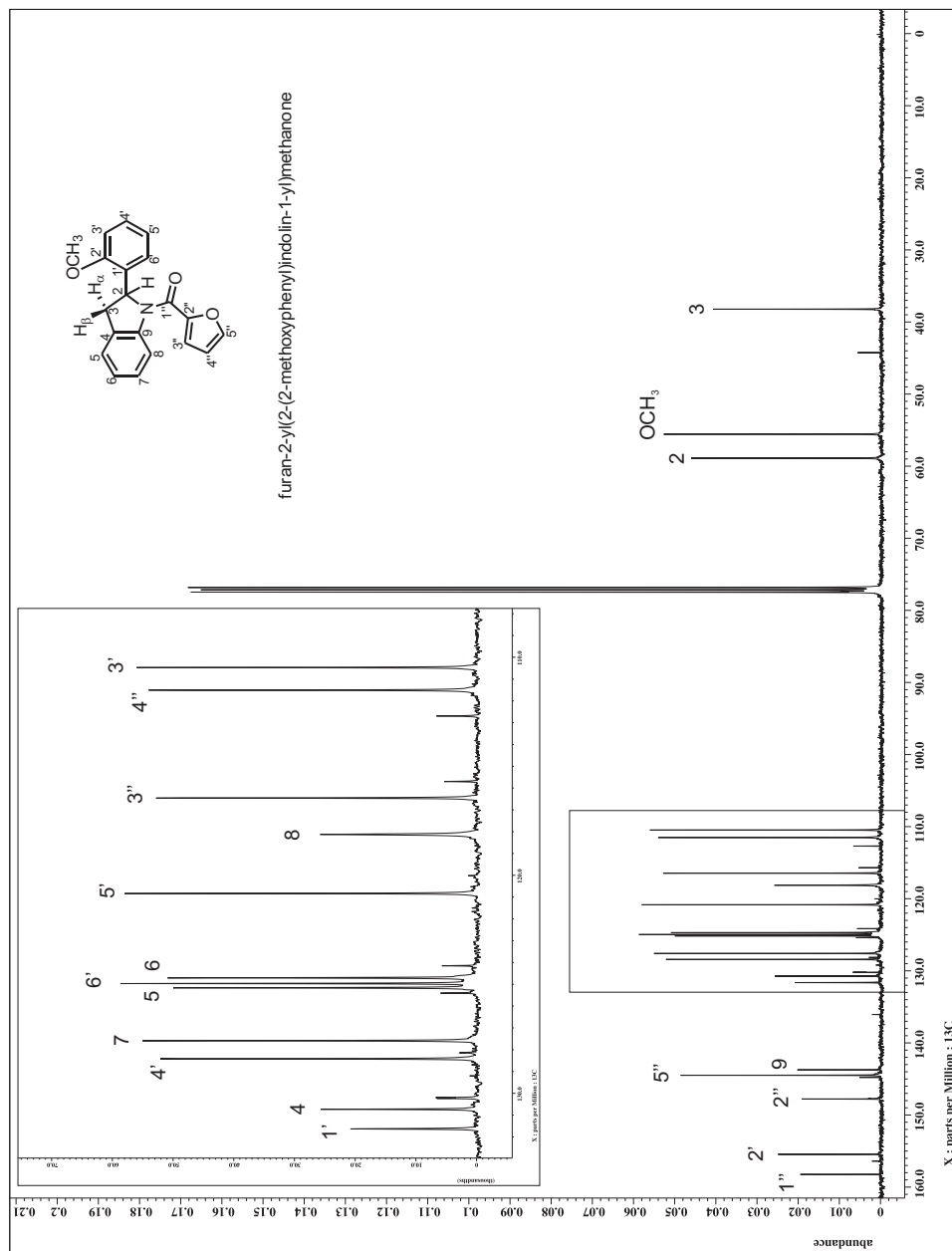


Figure S24: ¹³C spectrum (CDCl₃, 100MHz) of **18**.

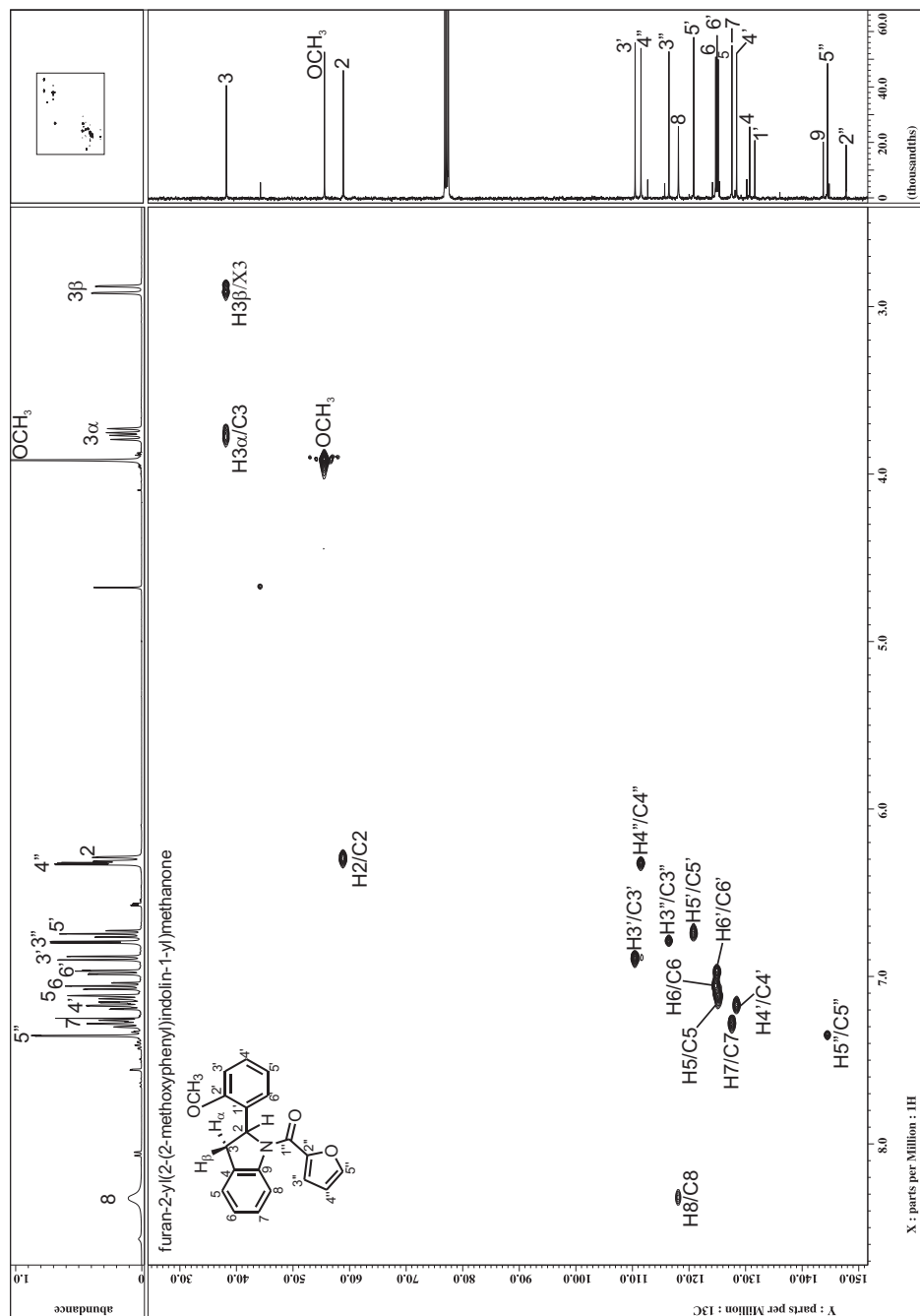


Figure S25: HSQC spectrum (CDCl₃, 400MHz) of **18**.

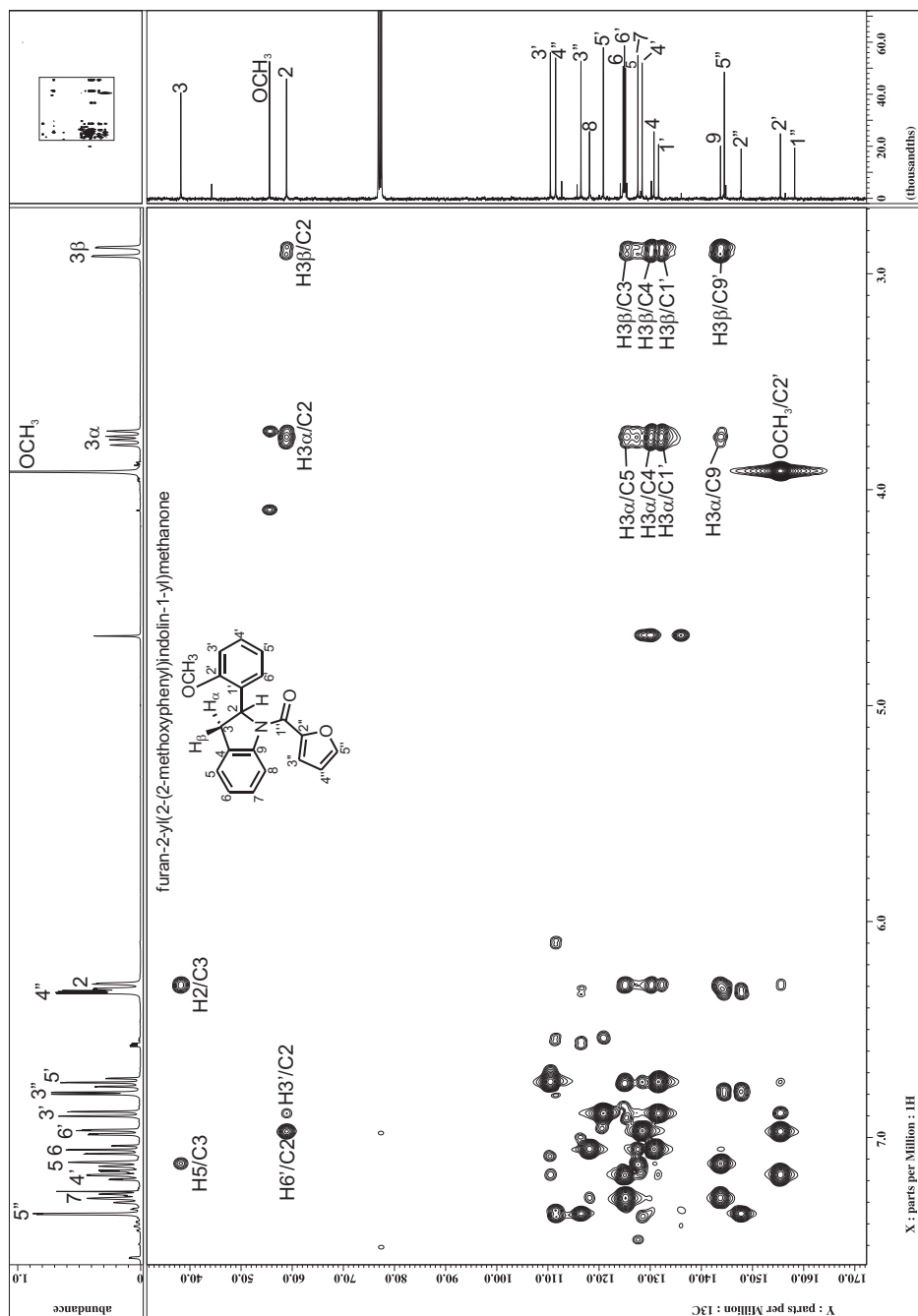


Figure S26: HMBC spectrum (CDCl₃, 400MHz) of **18**.

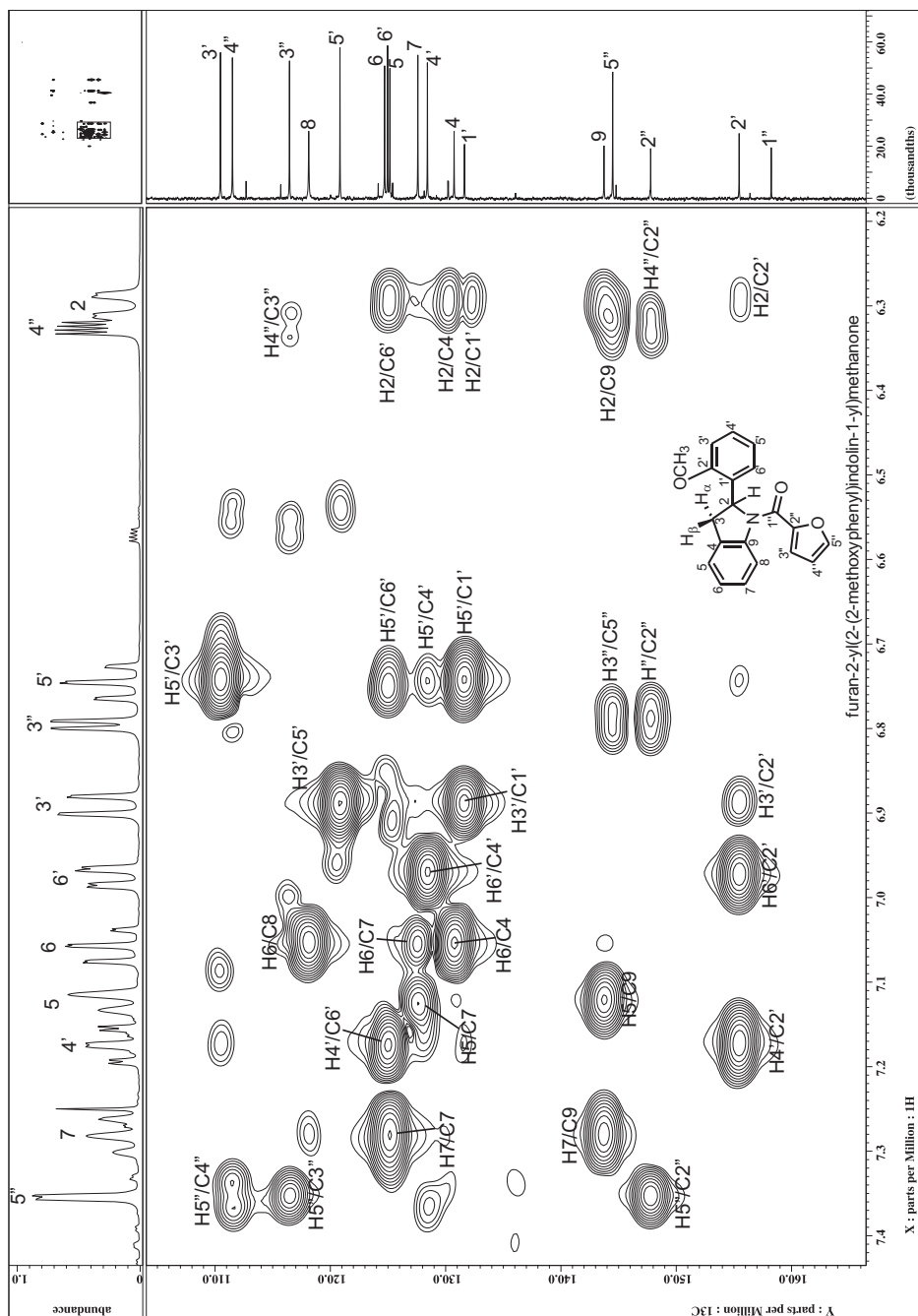


Figure S27: HMBC spectrum (CDCl₃, 400MHz) of **18** (expanded).

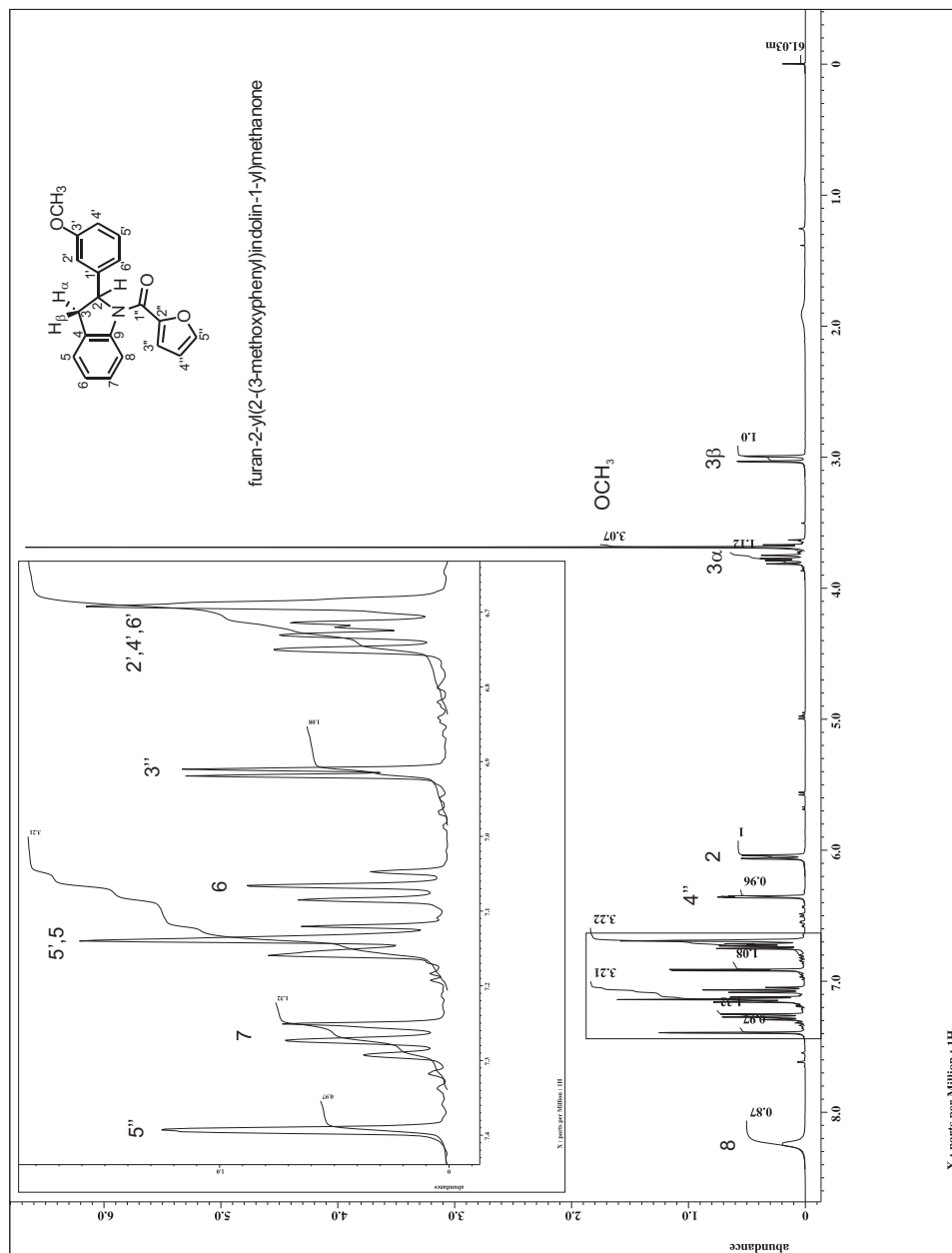


Figure S28: ^1H spectrum (CDCl_3 , 400MHz) of **19**.

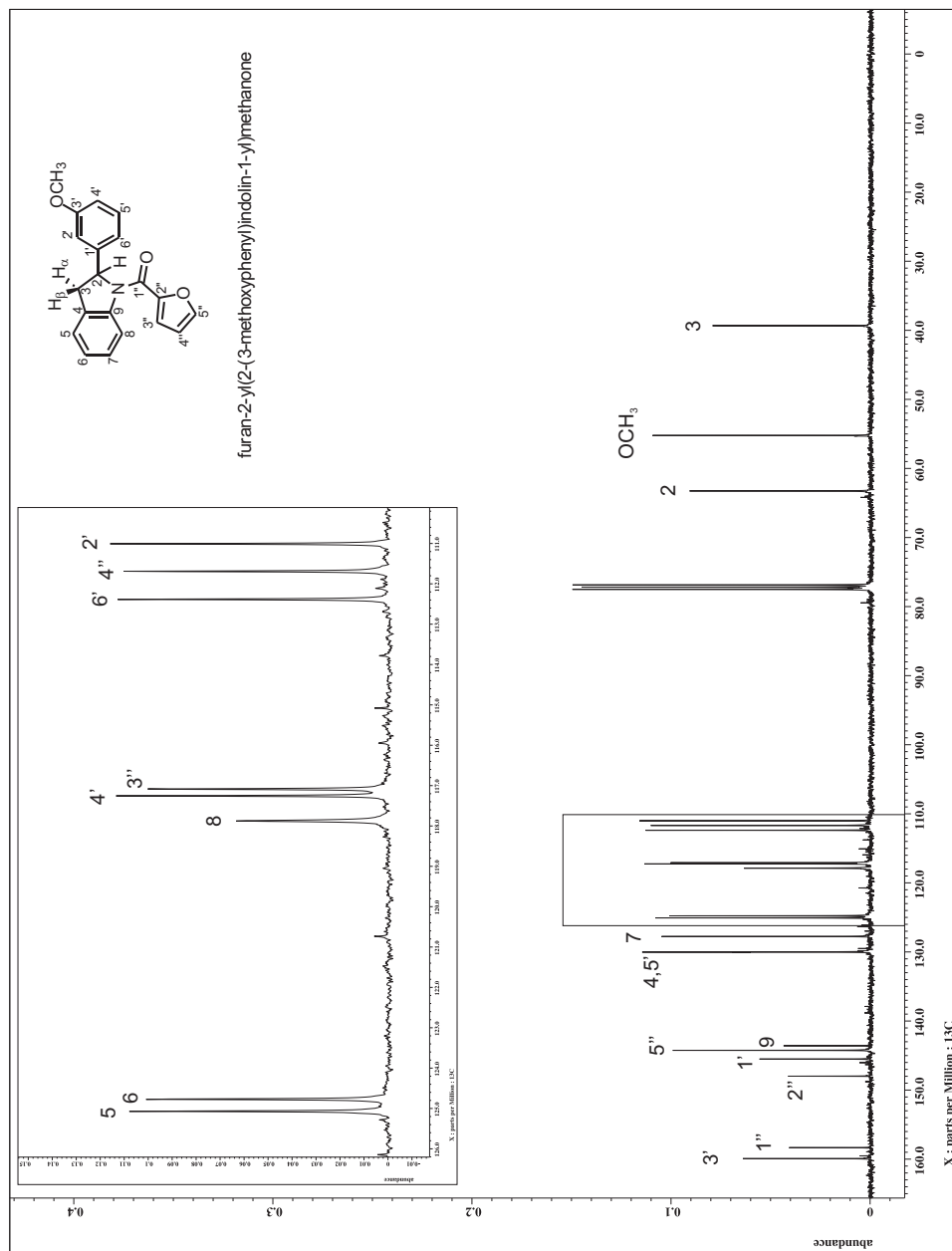


Figure S29: ¹³C spectrum (CDCl₃, 100MHz) of **19**.

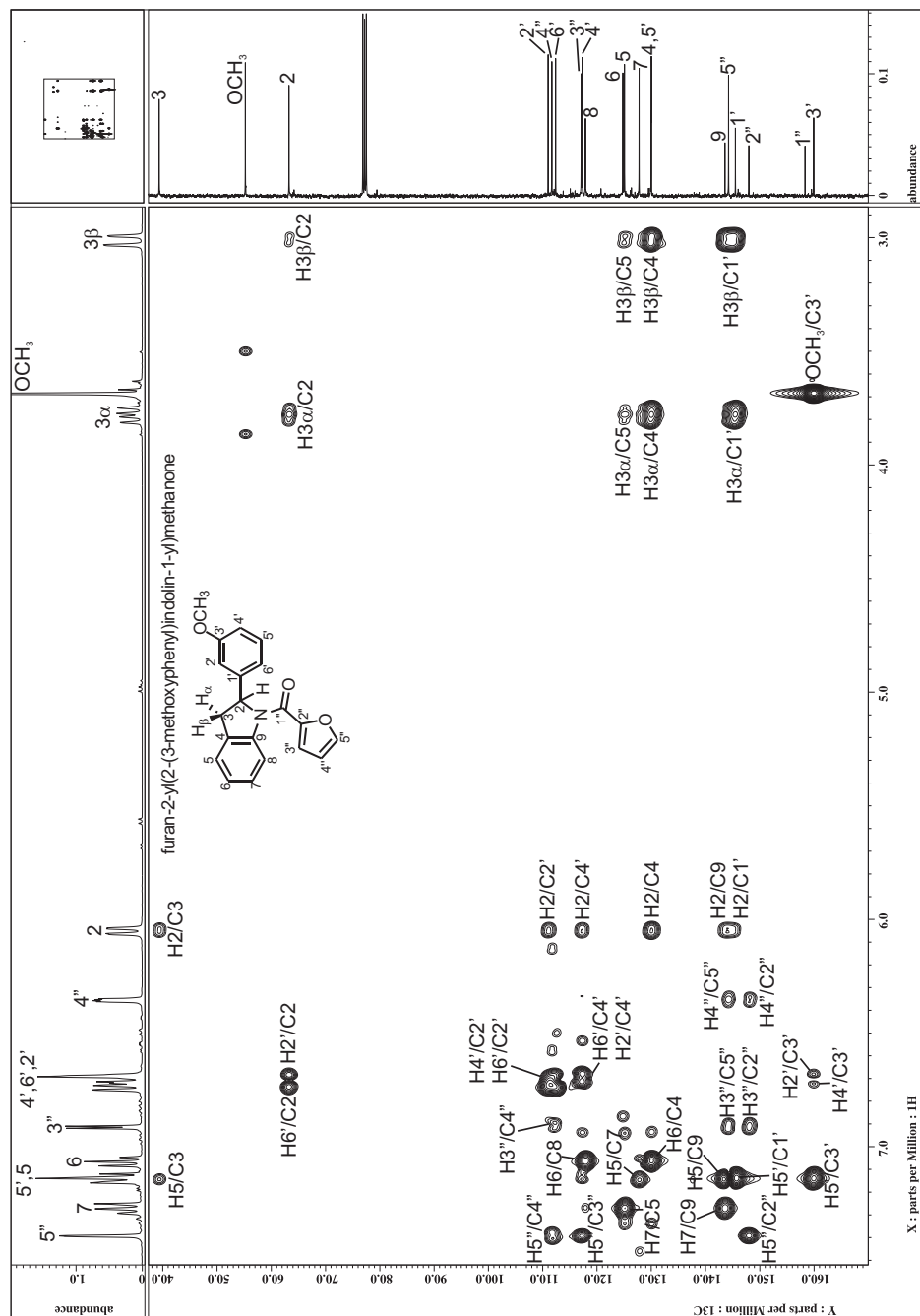


Figure S31: HMBC spectrum (CDCl₃, 400MHz) of **19**.

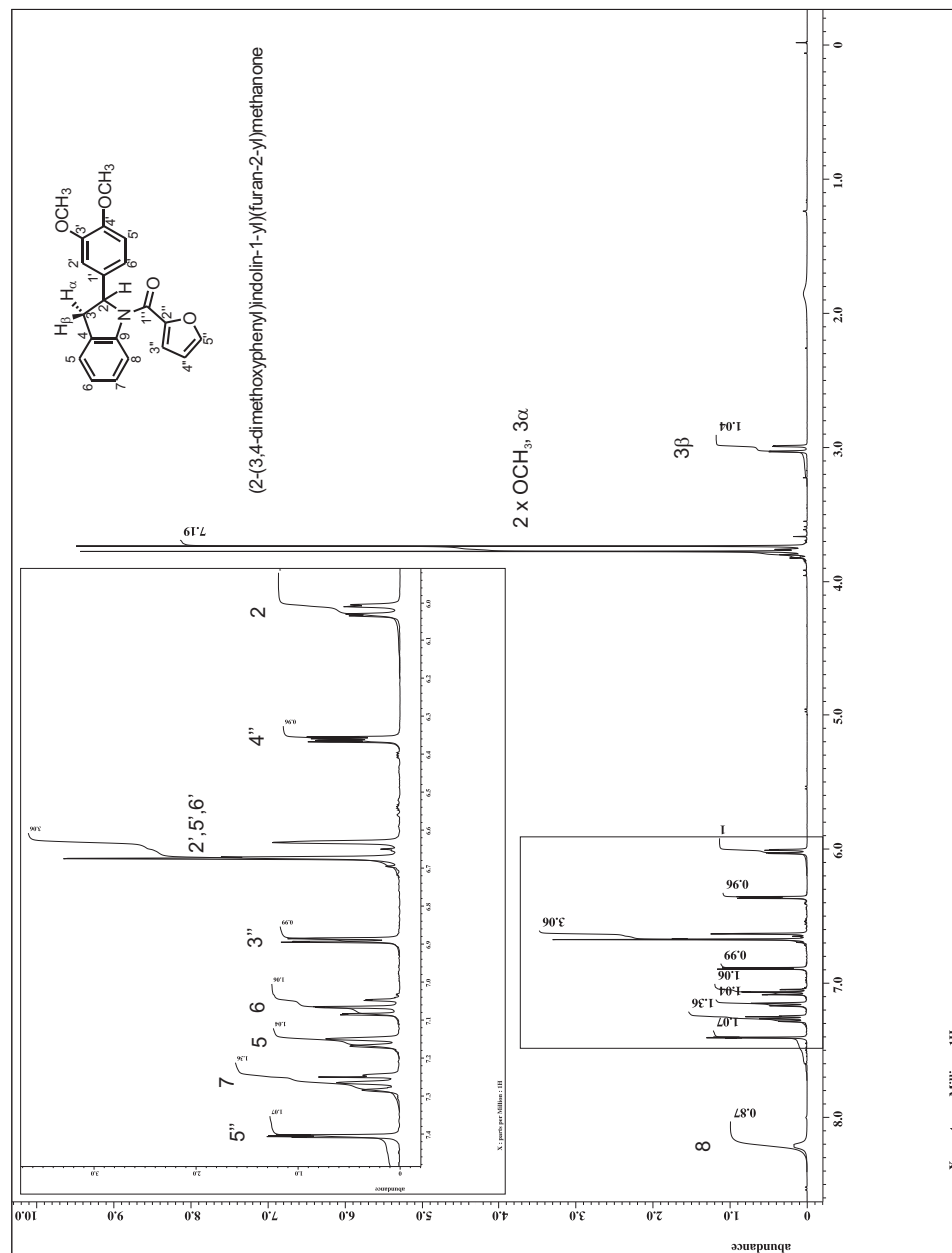


Figure S32: ¹H spectrum (CDCl₃, 400MHz) of 20a.

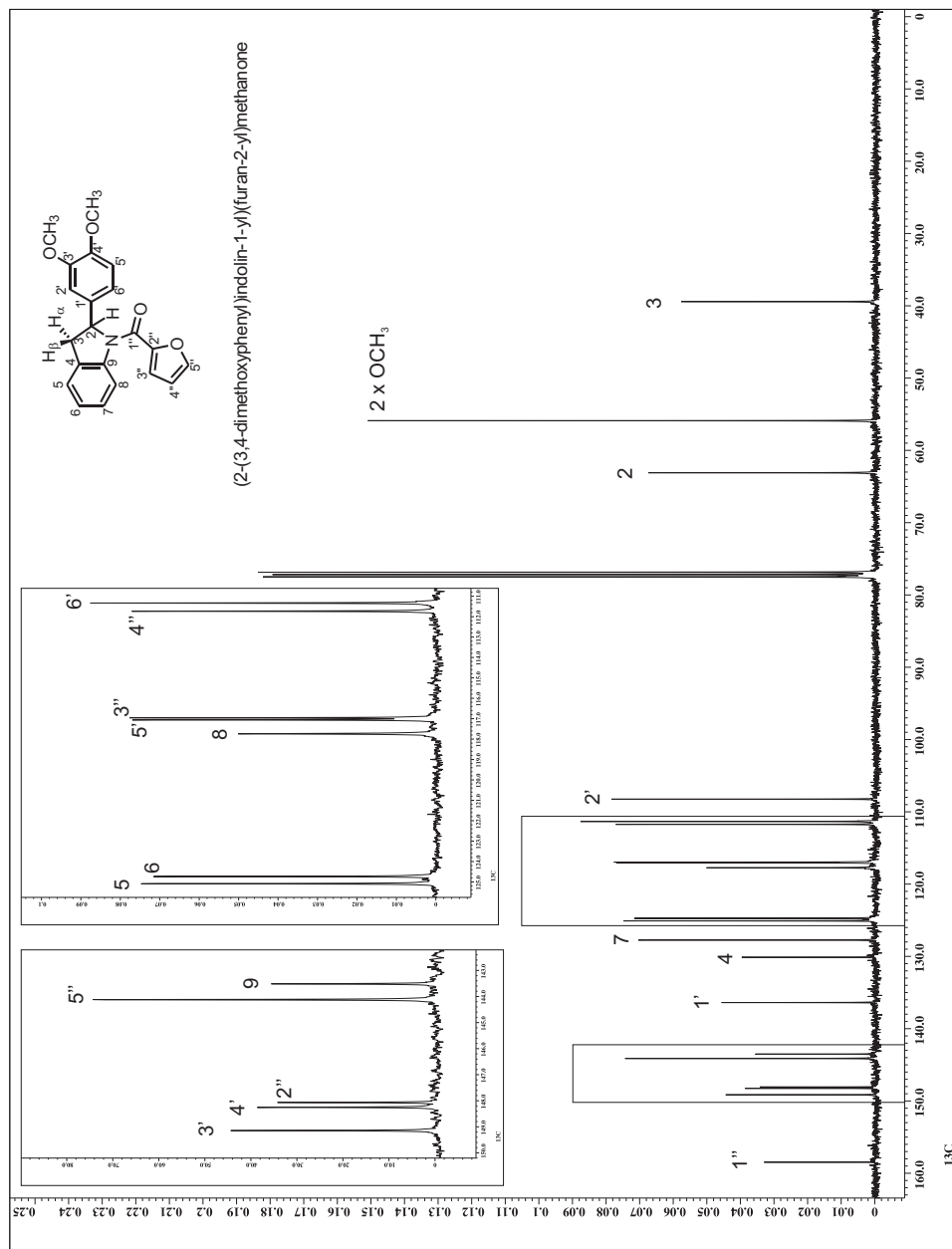
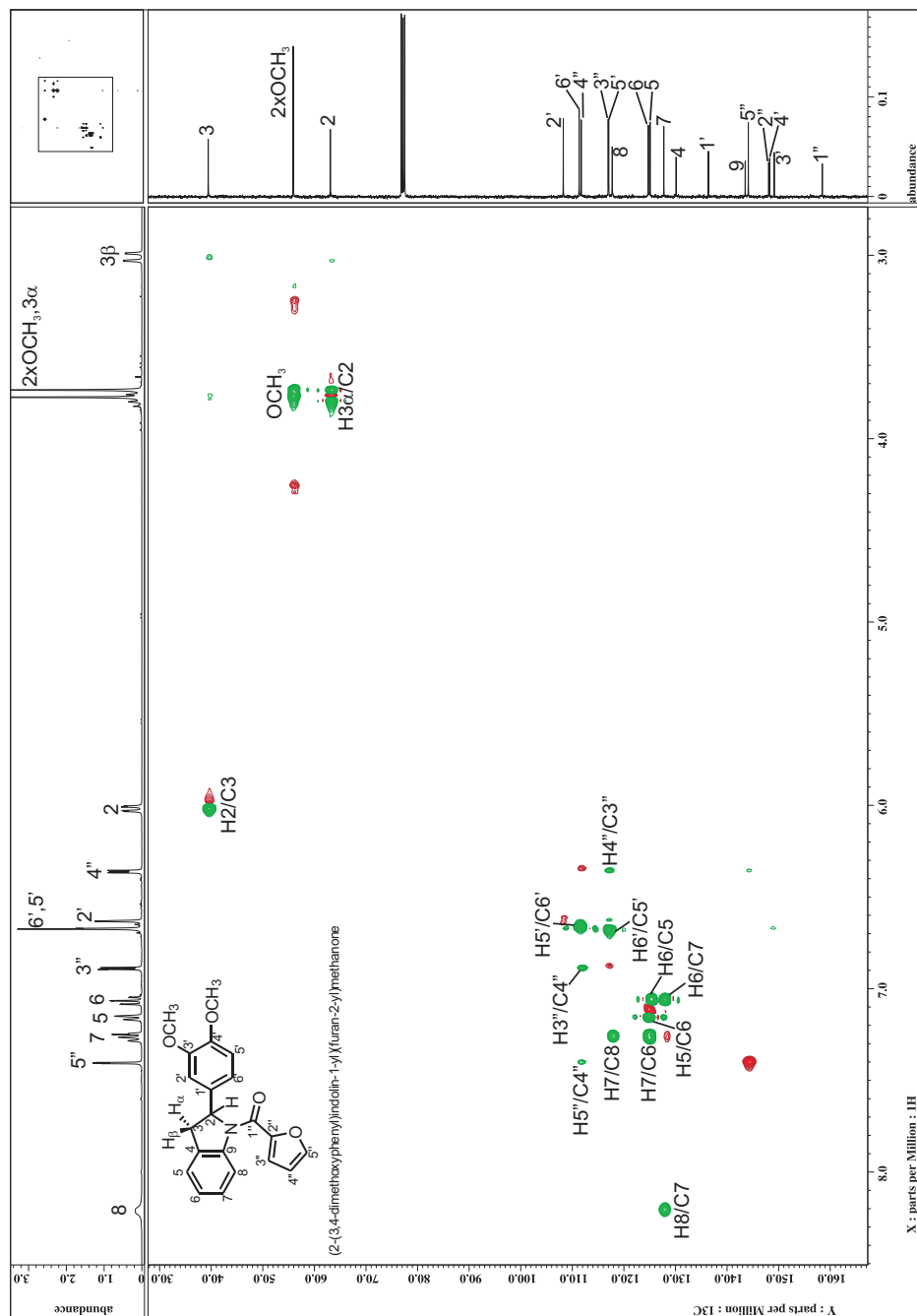


Figure S33: ¹³C spectrum (CDCl₃, 100MHz) of **20a**.



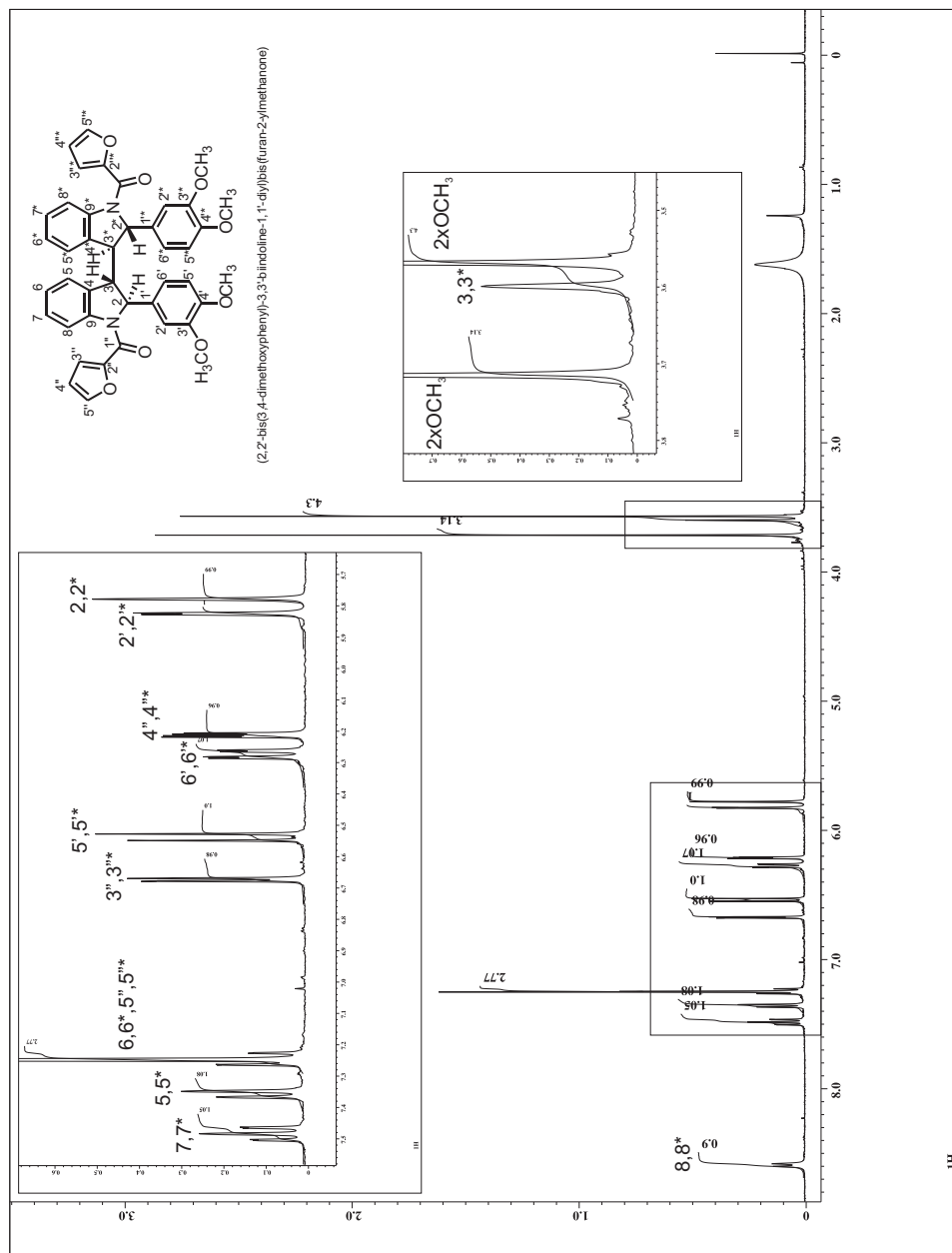


Figure S37: ¹H spectrum (CDCl₃, 400MHz) of (±)20b.

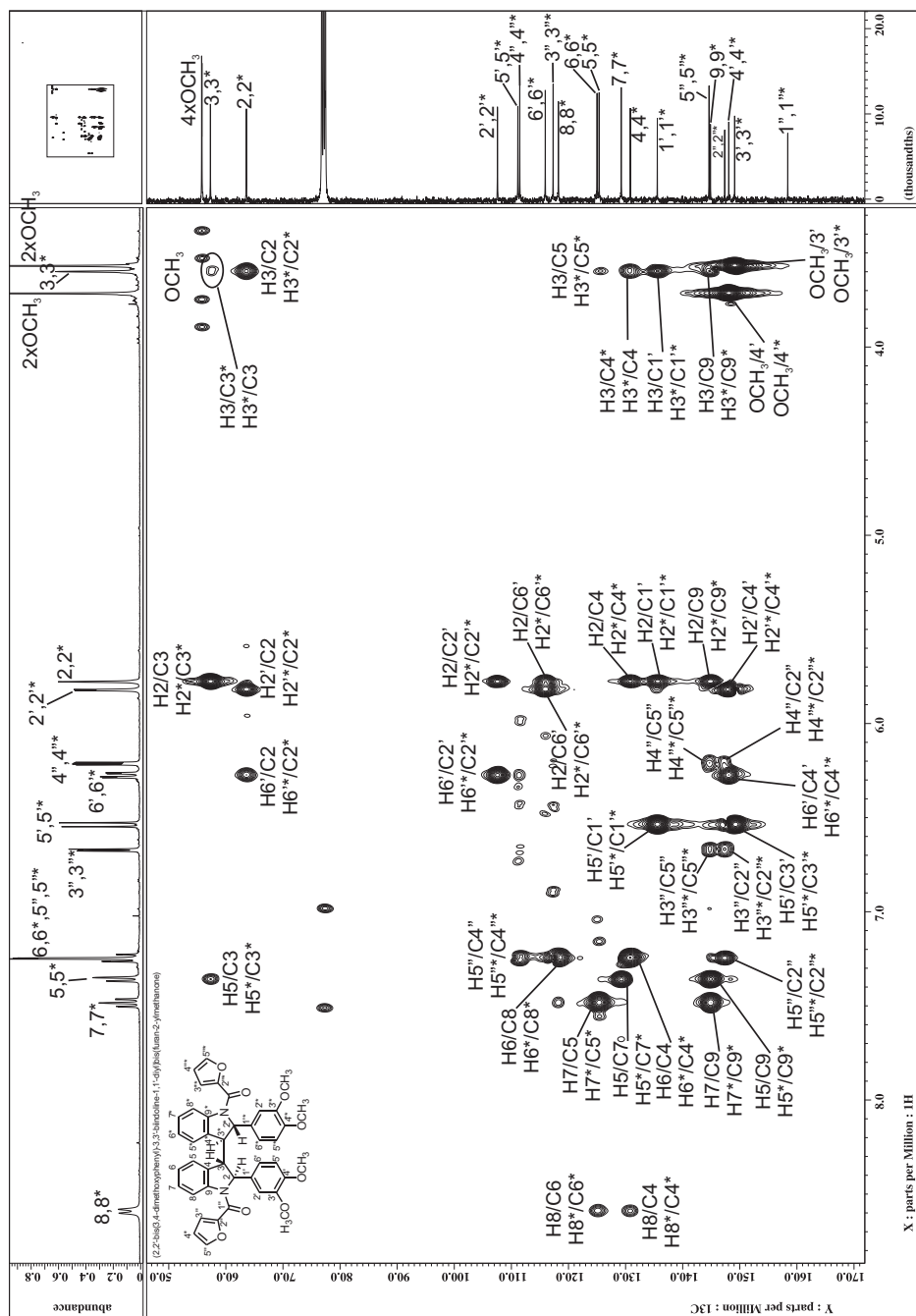


Figure S40: HMBC spectrum (CDCl_3 , 400MHz) of (±)**20b**.

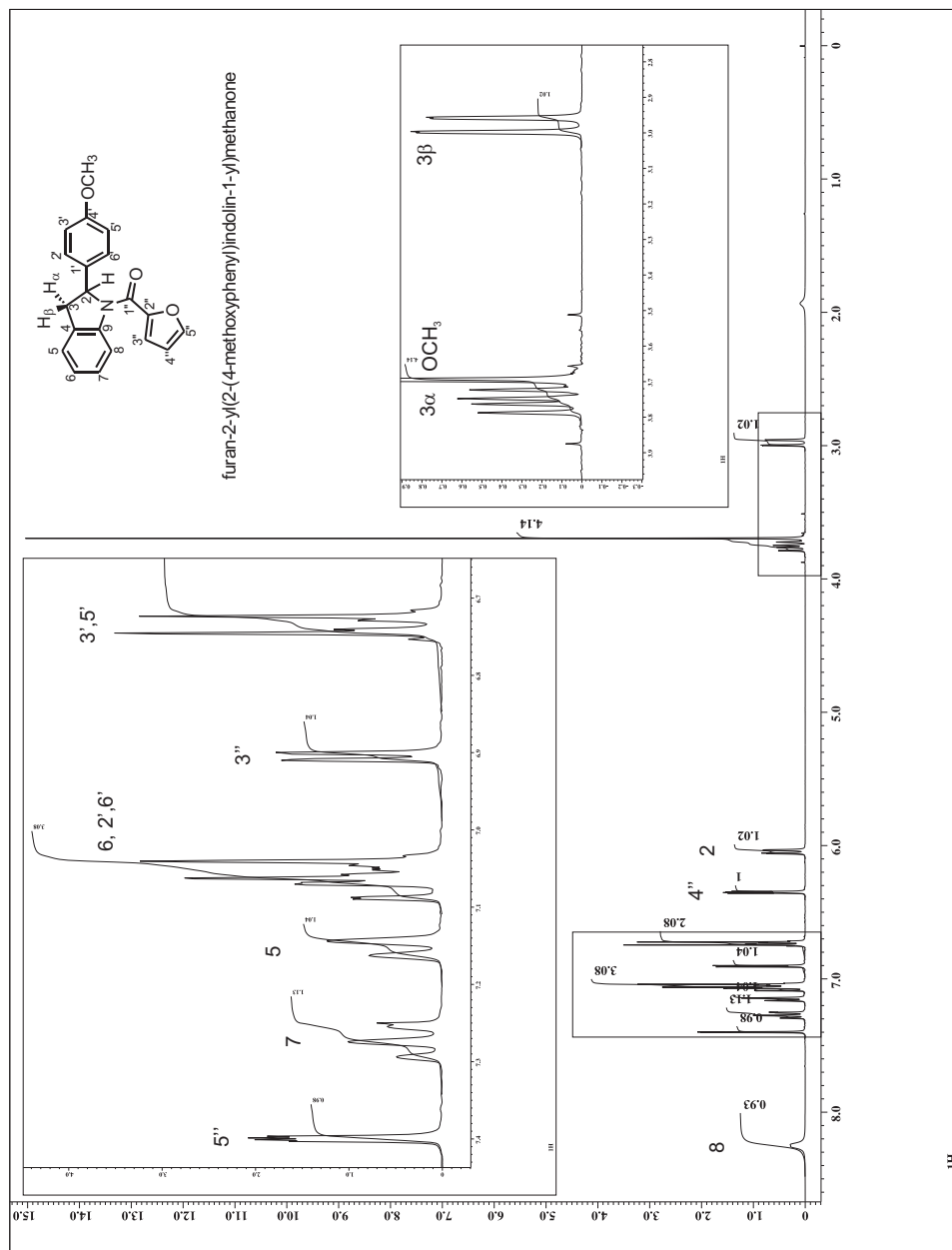


Figure S42: ^1H spectrum (CDCl_3 , 400MHz) of **21a**.

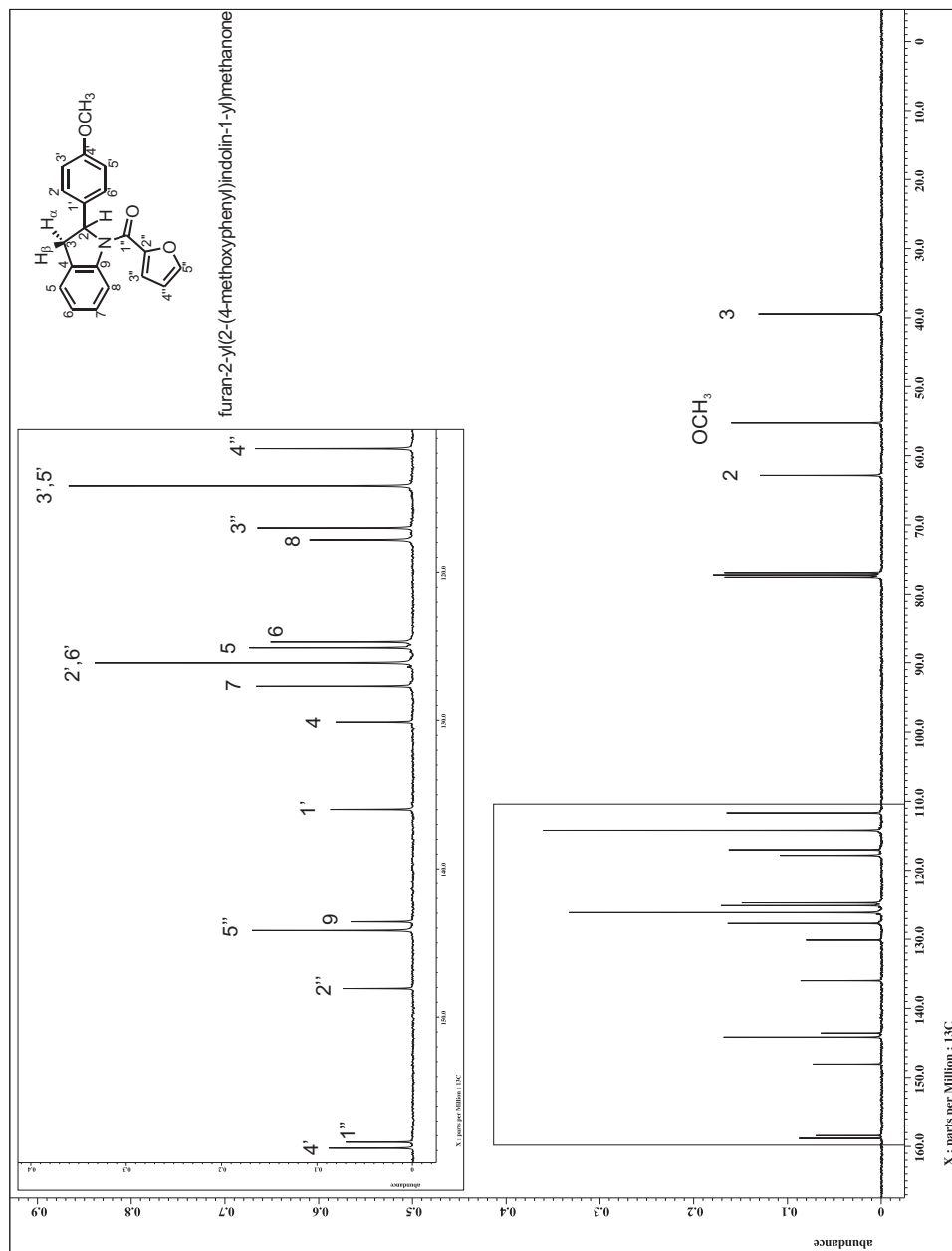


Figure S43: ¹³C spectrum (CDCl₃, 100MHz) of **21a**.

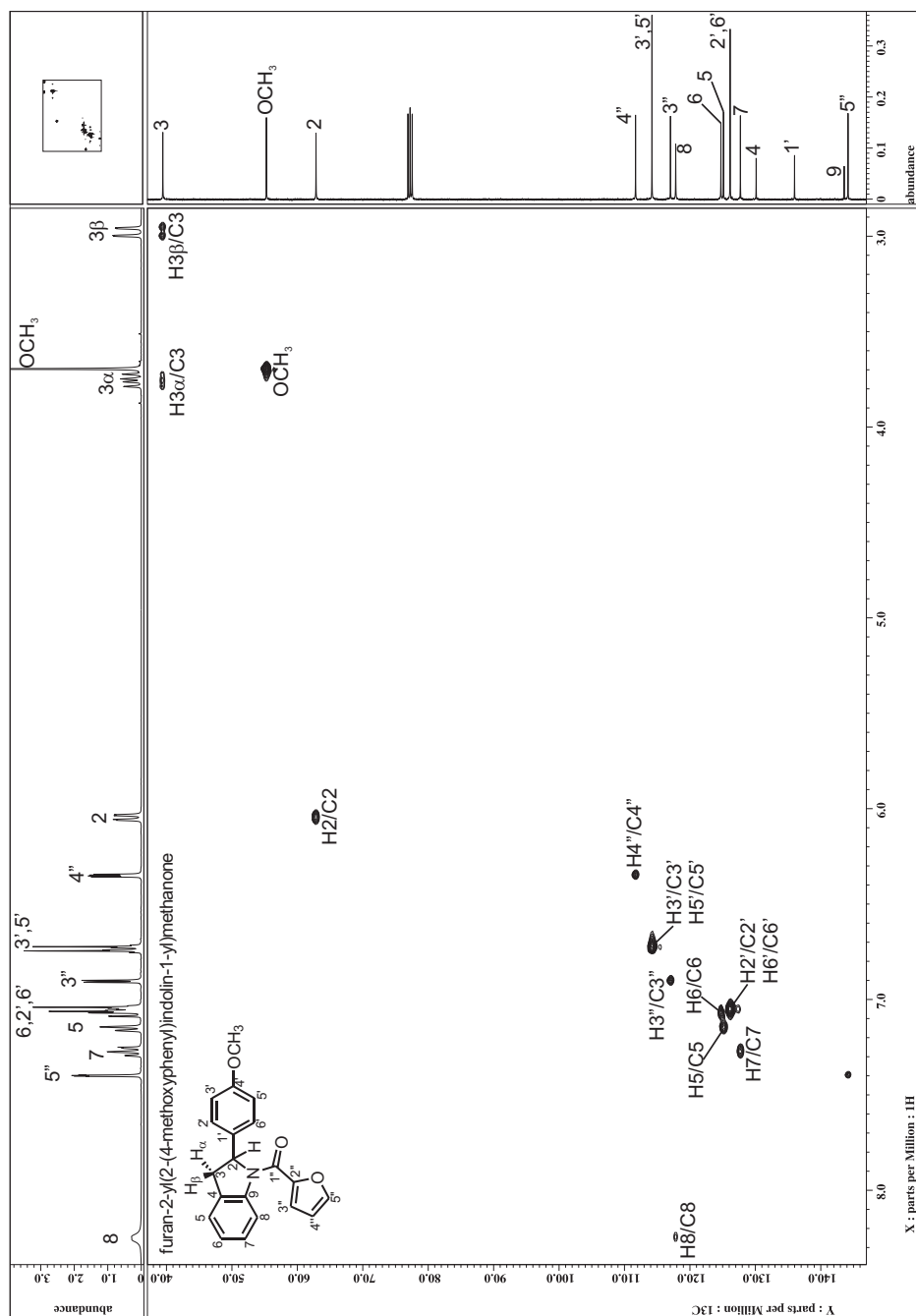


Figure S44: HSQC spectrum (CDCl₃, 400MHz) of **21a**.

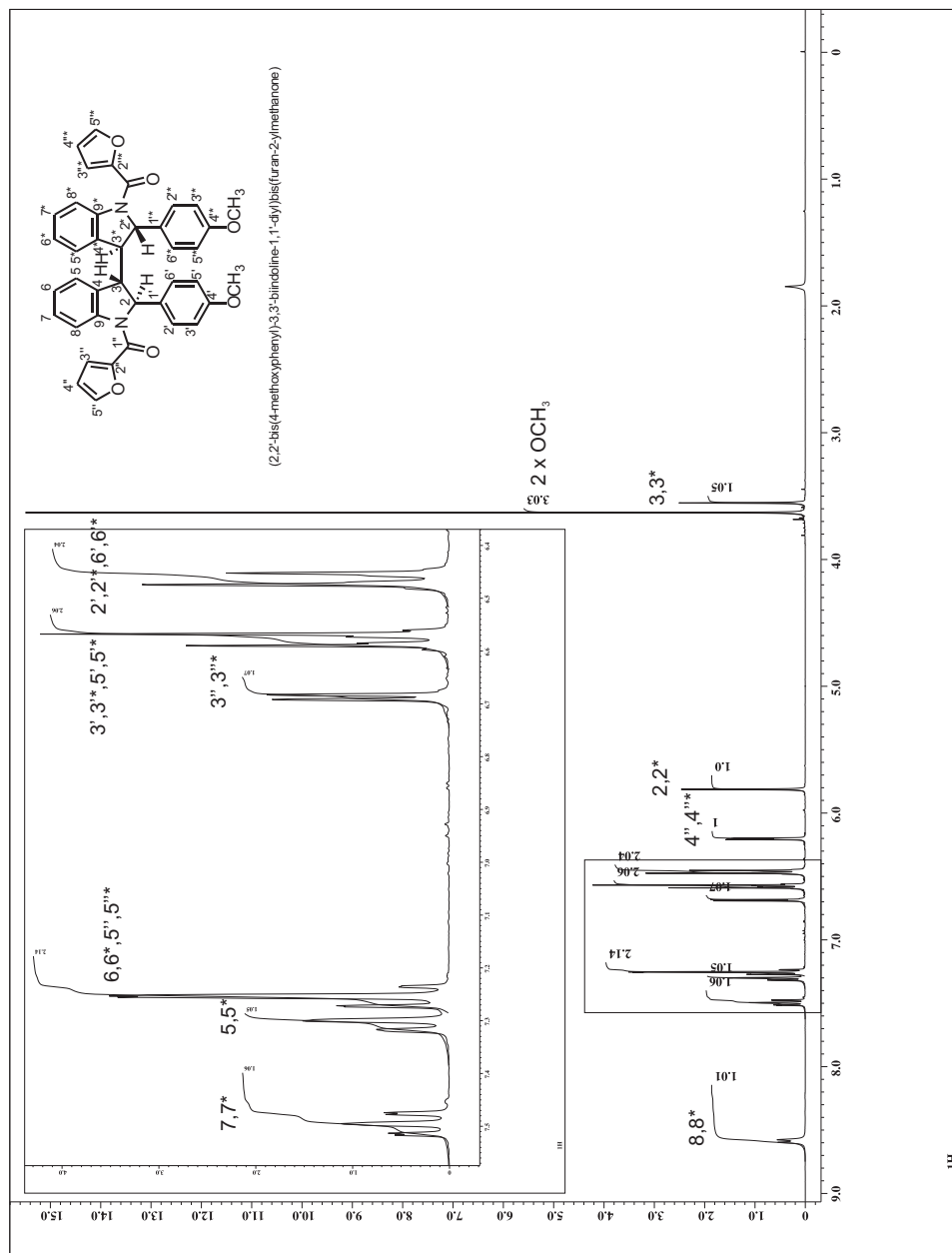


Figure S46: ¹H spectrum (CDCl₃, 400MHz) of (±)**21b**.

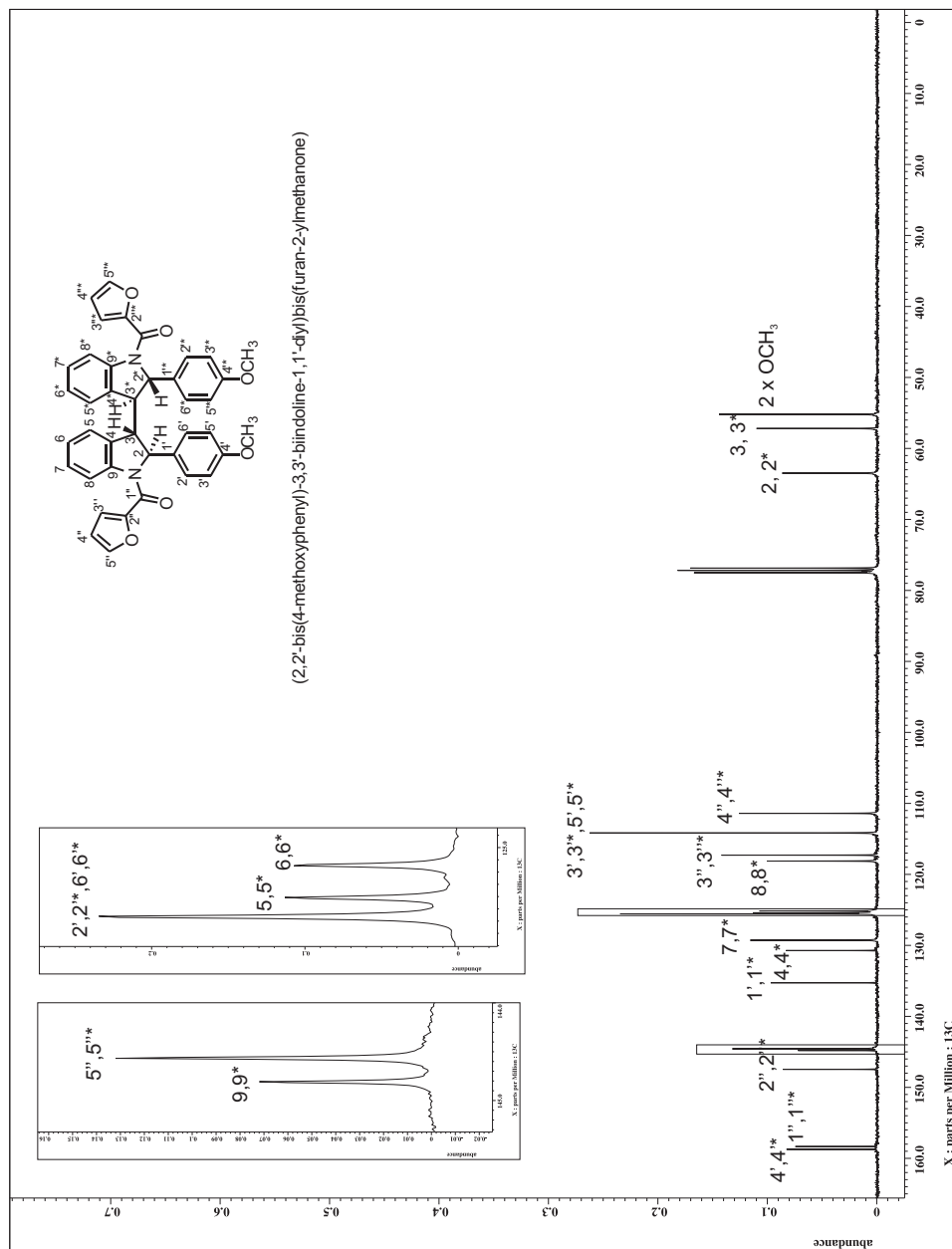


Figure S47: ¹³C spectrum (CDCl₃, 100MHz) of (±)**21b**.

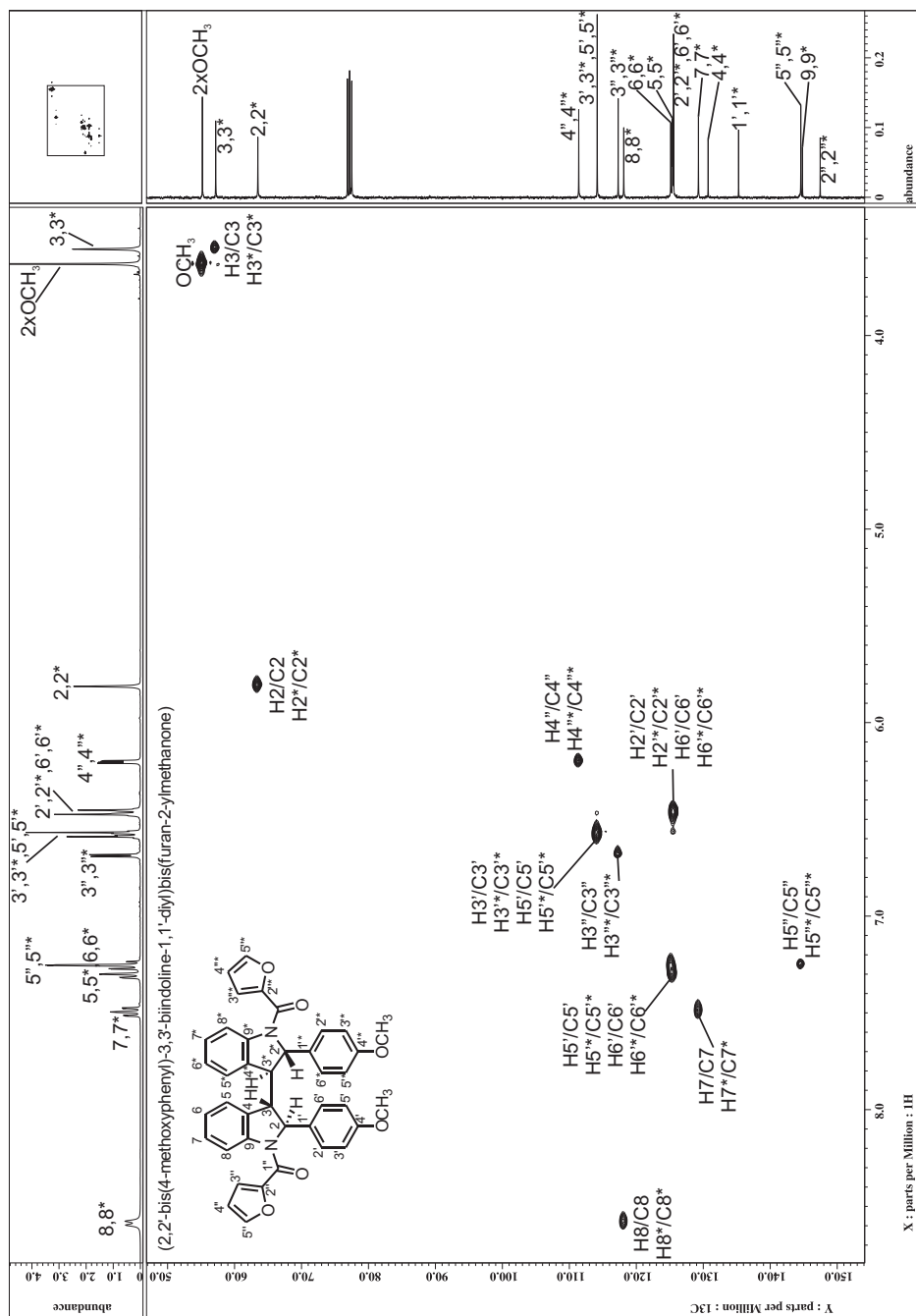
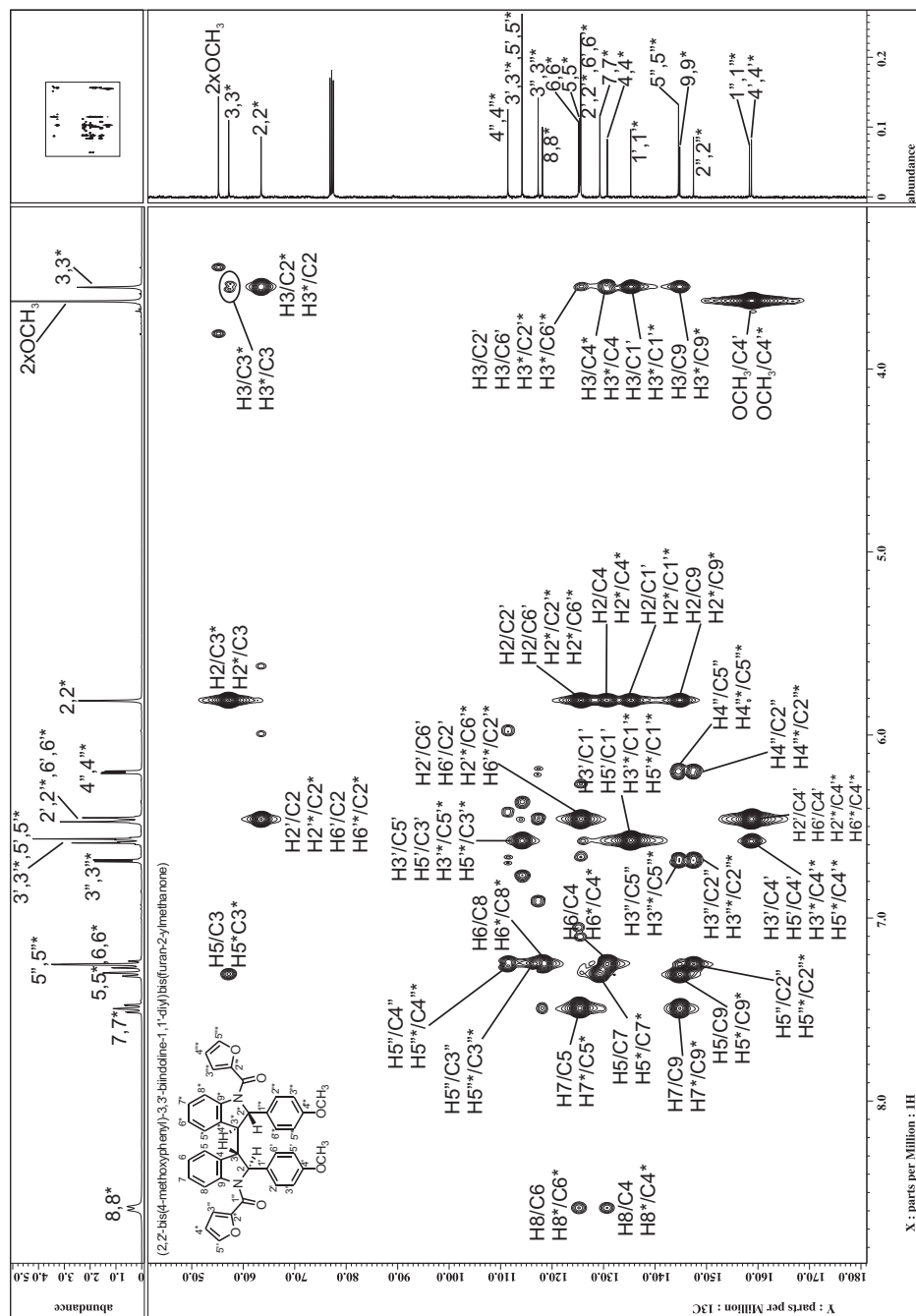


Figure S48: HSQC spectrum (CDCl_3 , 400MHz) of (\pm)**21b**.



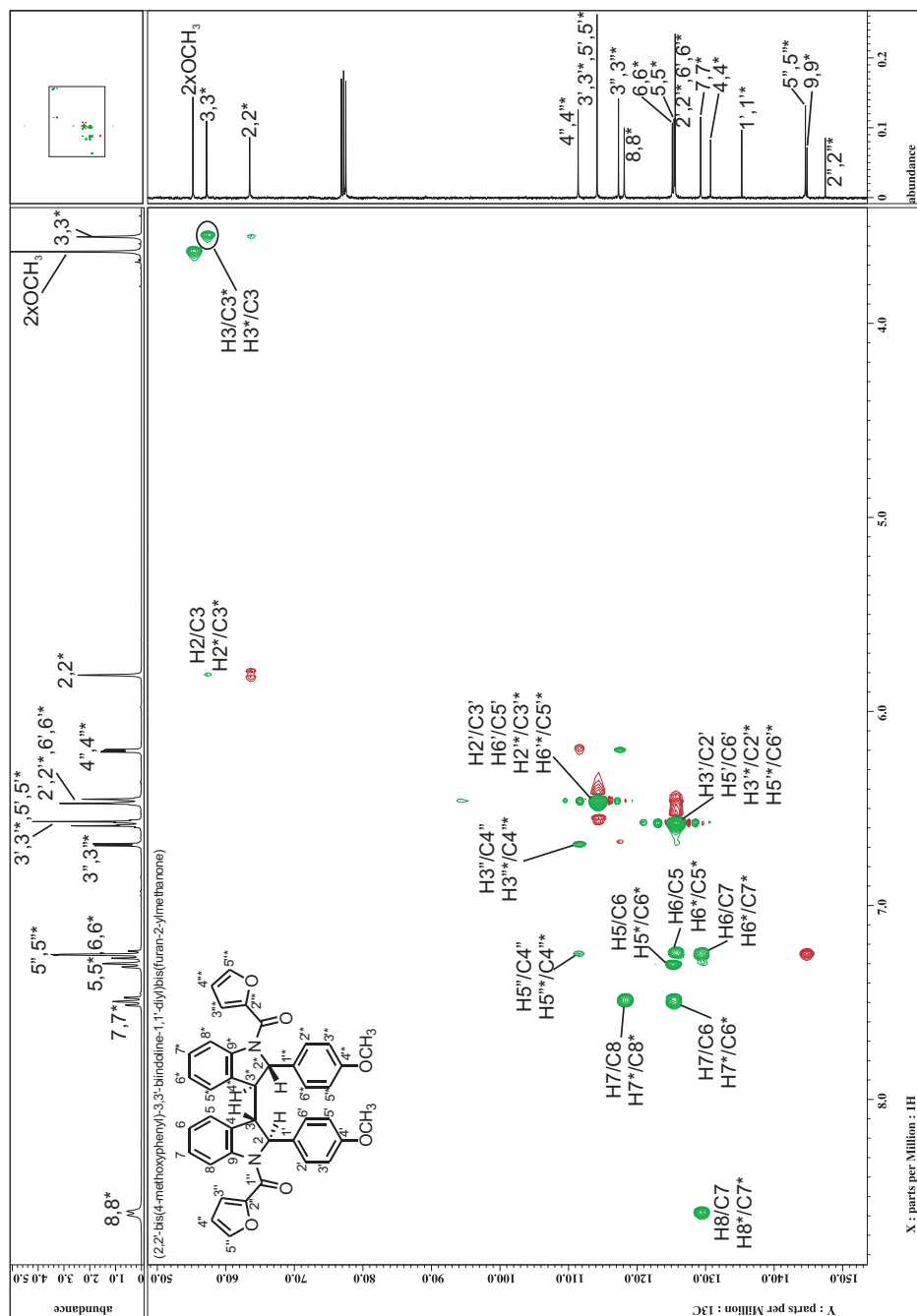


Figure S50: H2BC spectrum (CDCl₃, 400MHz) of (±)**21b**.