Supporting Information

Furan Oxidation Strategy for the Synthesis of the Macrolactone Analogue of Migrastatin

*Yougant Airan and Kavirayani R. Prasad**

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560012, India,

E-mail: prasad@iisc.ac.in; FAX: +918023600529

¹ H & ¹³ C NMR spectrum of 9	S2-S3
¹ H & ¹³ C NMR spectrum of 10	S4 -S5
¹ H & ¹³ C NMR spectrum of 11	S6-S7
¹ H & ¹³ C NMR spectrum of 7	S8-S9
¹ H & ¹³ C NMR spectrum of 13	S10-S11
¹ H & ¹³ C NMR spectrum of 14	S12-S13
¹ H & ¹³ C NMR spectrum of 15	S14-S15
¹ H & ¹³ C NMR spectrum of 16	S16-S17
¹ H & ¹³ C NMR spectrum of 6	S18-S19
¹ H & ¹³ C NMR spectrum of 17	S20-S21
¹ H & ¹³ C NMR spectrum of 5	S22-S23
¹ H & ¹³ C NMR spectrum of 18	S24-S25
¹ H & ¹³ C NMR spectrum of 2	S26-S27
¹ H & ¹³ C NMR spectrum of 19	S28-S29
Comparison/ tabulation of the NMRdata for 2 reported/Synthesized	S30-S31

¹H NMR spectrum (400 MHz, CDCl₃) of **9**

¹³C NMR spectrum (100 MHz, CDCl₃) of **9**

¹H NMR spectrum (400 MHz, CDCl₃) of **10**

¹H NMR spectrum (400 MHz, CDCl₃) of **11**

¹³C NMR spectrum (100 MHz, CDCl₃) of **11**

¹H NMR spectrum (400 MHz, CDCl₃) of **7**

¹³C NMR spectrum (100 MHz, CDCl₃) of **7**

^1H NMR spectrum (400 MHz, CDCl_3) of **13**

^{13}C NMR spectrum (100 MHz, CDCl_3) of **13**

¹³C NMR spectrum (100 MHz, CDCl₃) of **14**

¹H NMR spectrum (400 MHz, CDCl₃) of **15**

¹³C NMR spectrum (100 MHz, CDCl₃) of **15**

^{13}C NMR spectrum (100 MHz, CDCl_3) of **16**

¹³C NMR spectrum (100 MHz, CDCl₃) of **6**

^{13}C NMR spectrum (100 MHz, CDCl_3) of **17**

¹H NMR spectrum (400 MHz, CDCl₃) of **5**

¹H NMR spectrum (400 MHz, CDCl₃) of **18**

^{13}C NMR spectrum (100 MHz, CDCl_3) of **18**

¹H NMR spectrum (400 MHz, CDCl₃) of **19**

^{13}C NMR spectrum (100 MHz, CDCl_3) of **19**

¹ H & ¹³ C NMR spectral comparison of Synthetic macrolactone analogue of migrastatin 2
Yougant Airan, K. R. Prasad	Parthasarathi, Das et al. <i>Synthesis</i> , 2008 , 3, 445-451	Danishefsky, S. et al. <i>J. Am. Chem. Soc.</i> 2004 , 126, 11326-11337.
¹ H NMR		
6.80-6.70 (m, 1H)	6.82-6.74 (m, 1H)	6.81-6.75 (m, 1H)
5.73 (d, <i>J</i> = 16.0 Hz, 1H)	5.72 (d, <i>J</i> = 15.8 Hz, 1H)	5.73 (d, <i>J</i> = 15.9 Hz, 1H)
5.68-5.50 (m, 2H)	5.63-5.54 (m, 2H)	5.62-5.55 (m, 2H)
5.13 (dd, <i>J</i> = 15.2, 6.8 Hz, 1H)	5.15 (dd, <i>J</i> = 14.8, 6.4 Hz, 1H)	5.14 (dd, <i>J</i> = 15.2, 6.8 Hz, 1H)
4.72 (ABq, <i>J</i> = 15.2 Hz, 1H)	4.72 (d, <i>J</i> = 15.6 Hz, 1H)	4.72 (d, <i>J</i> = 15.6 Hz, 1H)
4.62 (ABq, <i>J</i> = 15.2 Hz, 1H)	4.63 (d, <i>J</i> = 15.6 Hz, 1H)	4.63 (d, <i>J</i> = 15.6 Hz, 1H)
3.45-3.35 (m, 2H)	3.46-3.40 (m, 2H)	3.42-3.38 (m, 2H)
3.28 (s, 3H)	3.28 (s, 3H)	3.28 (s, 3H)
3.10-2.92 (m, 1H)	3.04-2.97 (m, 1H)	3.03-2.97 (m, 1H)
2.52-2.32 (m, 2H)	2.46-2.40 (m, 2H)	2.47-2.38 (m, 2H)
2.33-2.08 (m, 2H)	2.36-2.19 (m, 2H)	2.32-2.18 (m, 2H)
1.68 (s, 3H)	1.68 (s, 3H)	1.68 (s, 3H)
0.88 (d, <i>J</i> = 6.8 Hz, 3H)	0.88 (d, <i>J</i> = 7.0 Hz, 3H)	0.88 (d, <i>J</i> = 6.9 Hz, 3H)

¹³ C NMR		
165.3	165.3	165.4
149.5	149.5	149.5
133.8	133.8	133.8
129.8	129.8	129.8
129.5	129.5	129.5
127.5	127.4	127.5
122.1	122.1	122.1
84.6	84.6	84.6
76.1	76.0	76.0
65.4	65.4	65.4
56.2	56.2	56.3
32.2	32.2	32.2
31.4	31.3	31.3
30.0	30.0	30.0
22.3	22.2	22.3
12.6	12.6	12.7