

Supporting information

Amide derivatives of ginkgolide B and their inhibitory effects on PAF-induced platelet aggregation

Qiang Shang^{a,b}, Xiaobo Zhou^a, Ming-Rong Yang^a, Jing-Guang Lu^a, Yu Pan^a, Guo-Yuan Zhu^{a,*}, Zhi-Hong Jiang^{a,*}

^a State Key Laboratory of Quality Research in Chinese Medicine, Guangdong-Hong Kong-Macao Joint Laboratory of Respiratory Infectious Disease, Macau Institute for Applied Research in Medicine and Health, Macau University of Science and Technology, Macau, People's Republic of China

^b Livzon Pharmaceutical Group Inc., Zhuhai, 519000, People's Republic of China

Corresponding authors:

E-mail address: zhjiang@must.edu.mo. (Z. -H. Jiang)

gyzhu@must.edu.mo. (G. -Y. Zhu)

List:

Figure S1	Total ion chromatography (TIC) spectrum of the reaction of GB (1) with propylamine at 50 °C.....	S4
Figure S2	¹ H NMR spectrum of 2	S4
Figure S3	¹³ C NMR spectrum of 2	S5
Figure S4	HSQC spectrum of 2	S5
Figure S5	HMBC spectrum of 2	S6
Figure S6	¹ H- ¹ H COSY spectrum of 2	S6
Figure S7	NOESY spectrum of 2	S7
Figure S8	HR-ESI/TOF-MS spectrum of 2	S7
Figure S9	IR spectrum of 2	S8
Figure S10	¹ H NMR spectrum of 3	S8
Figure S11	¹³ C NMR spectrum of 3	S9
Figure S12	HSQC spectrum of 3	S9
Figure S13	HMBC spectrum of 3	S10
Figure S14	¹ H- ¹ H COSY spectrum of 3	S10
Figure S15	NOESY spectrum of 3	S11
Figure S16	HR-ESI/TOF-MS spectrum of 3	S11
Figure S17	IR spectrum of 3	S12
Figure S18	¹ H NMR spectrum of 4	S12
Figure S19	¹³ C NMR spectrum of 4	S13
Figure S20	HSQC spectrum of 4	S13
Figure S21	HMBC spectrum of 4	S14
Figure S22	¹ H- ¹ H COSY spectrum of 4	S14
Figure S23	NOESY spectrum of 4	S15
Figure S24	HR-ESI/TOF-MS spectrum of 4	S15
Figure S25	IR spectrum of 4	S16
Figure S26	¹ H NMR spectrum of 5	S16
Figure S27	¹³ C NMR spectrum of 5	S17
Figure S28	HSQC spectrum of 5	S17
Figure S29	HMBC spectrum of 5	S18
Figure S30	¹ H- ¹ H COSY spectrum of 5	S18
Figure S31	NOESY spectrum of 5	S19

Figure S32	HR-ESI/TOF-MS spectrum of 5	S19
Figure S33	IR spectrum of 5	S20
Figure S34	¹ H NMR spectrum of GB (1)	S20
Figure S35	¹³ C NMR spectrum of GB (1)	S21
Figure S36	HSQC spectrum of GB (1)	S21
Figure S37	HMBC spectrum of GB (1)	S22

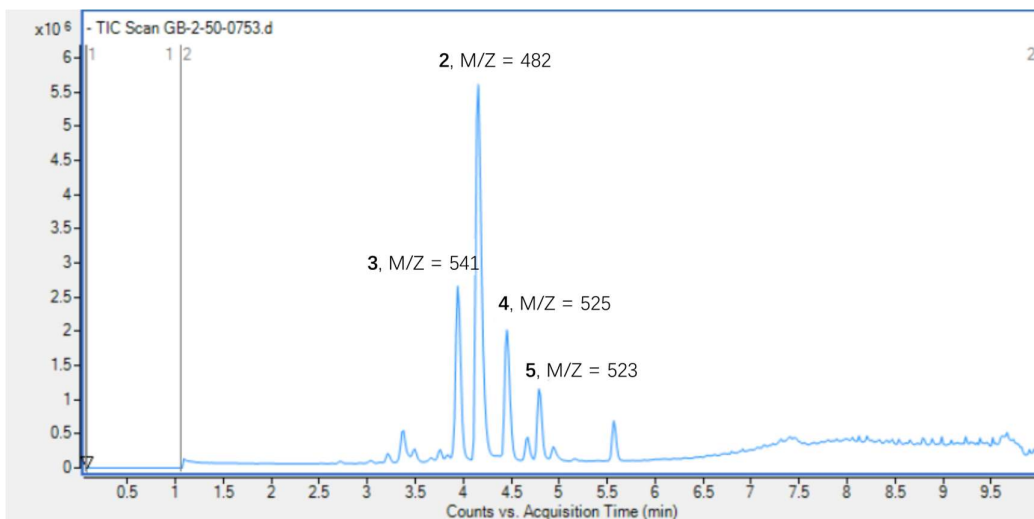


Figure S1 Total ion chromatography (TIC) spectrum of the reaction of GB (1) with propylamine at 50 °C

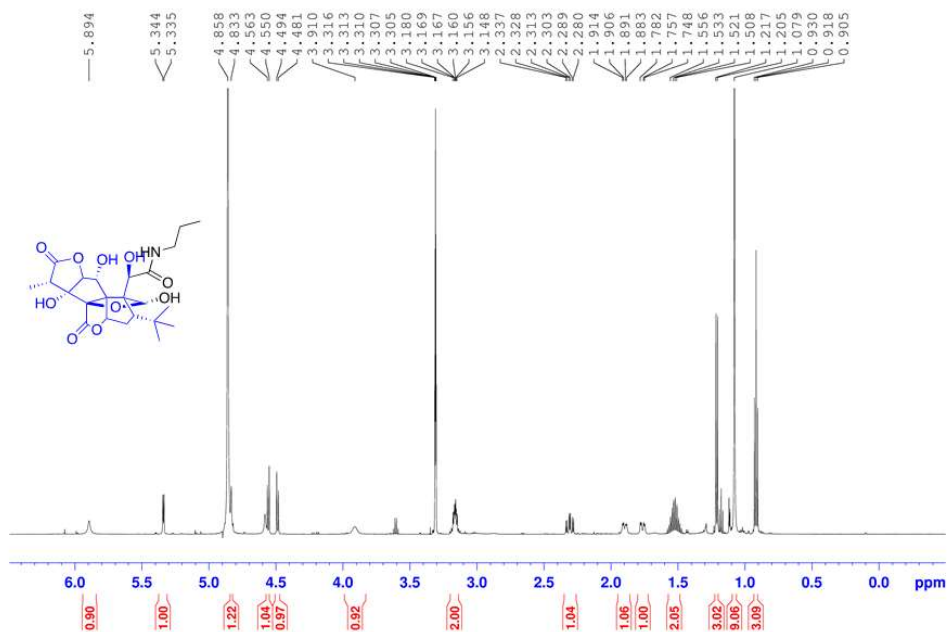


Figure S2 ¹H NMR spectrum of 2

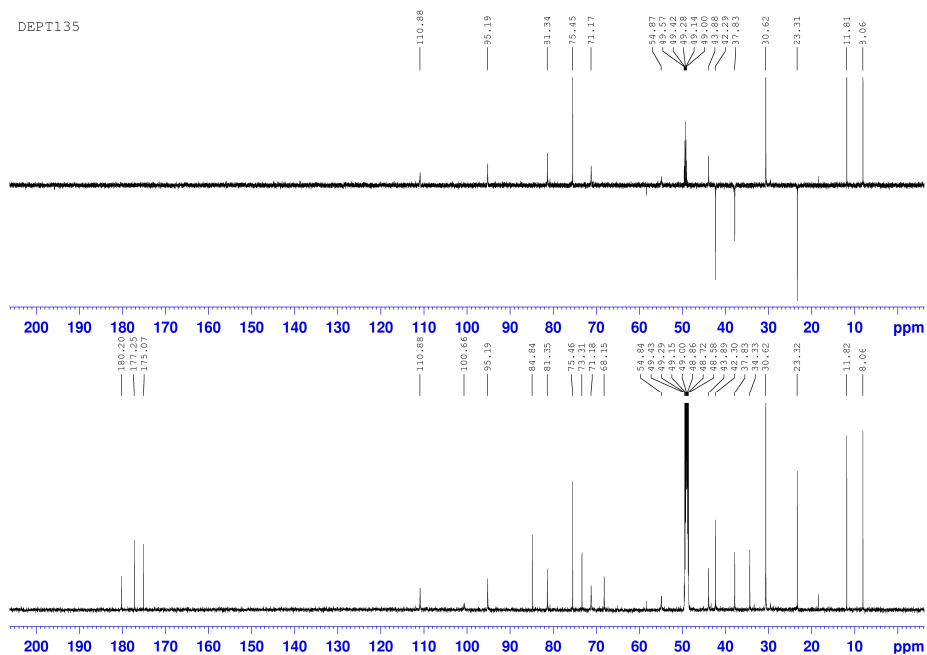


Figure S3 ^{13}C NMR spectrum of **2**

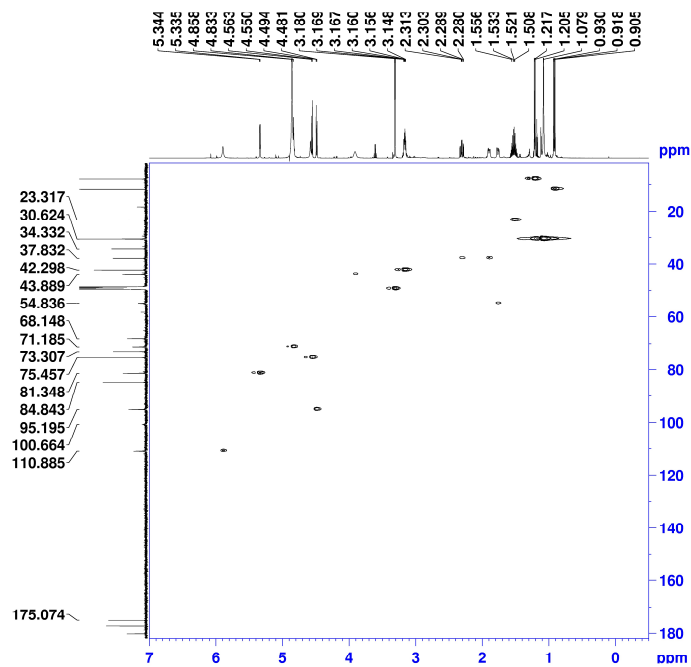


Figure S4 HSQC spectrum of **2**

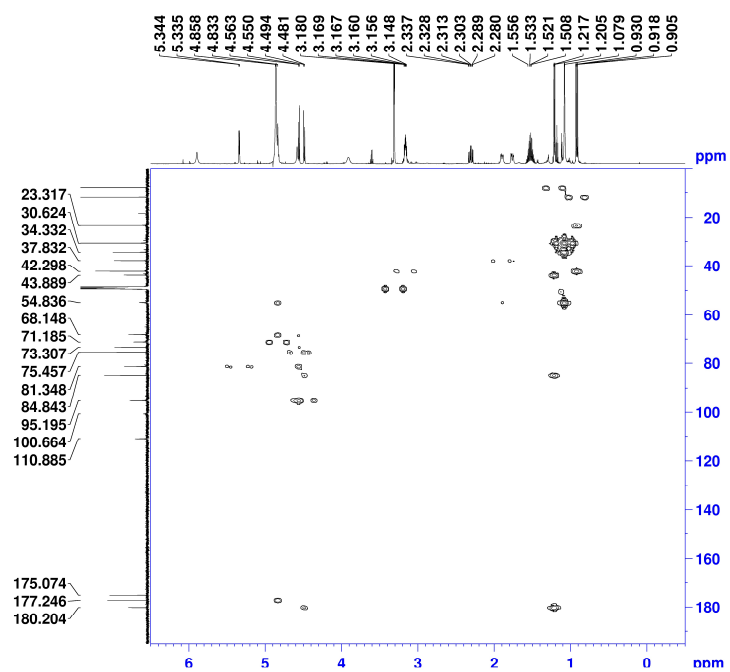


Figure S5 HMBC spectrum of **2**

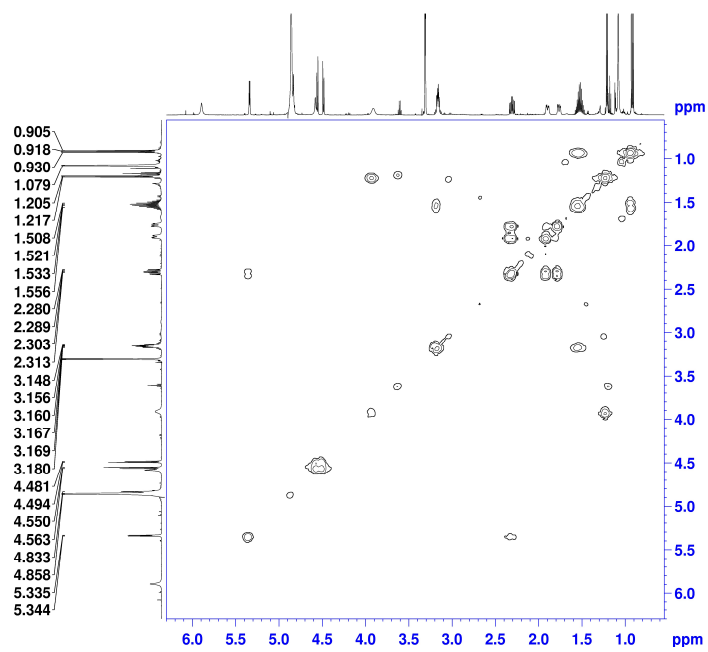


Figure S6 ^1H - ^1H COSY spectrum of **2**

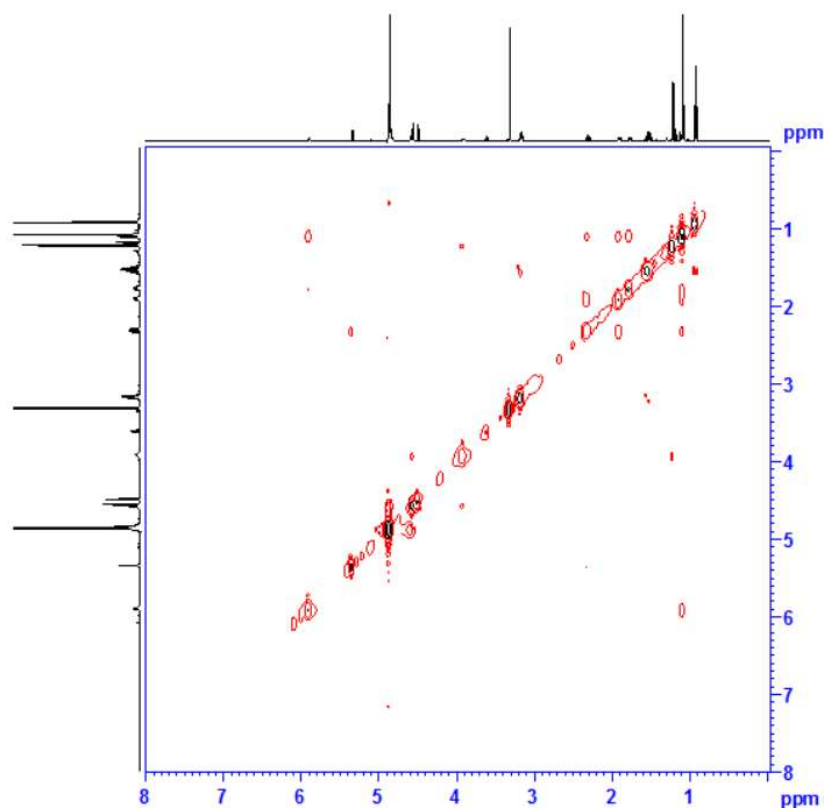


Figure S7 NOESY spectrum of **2**

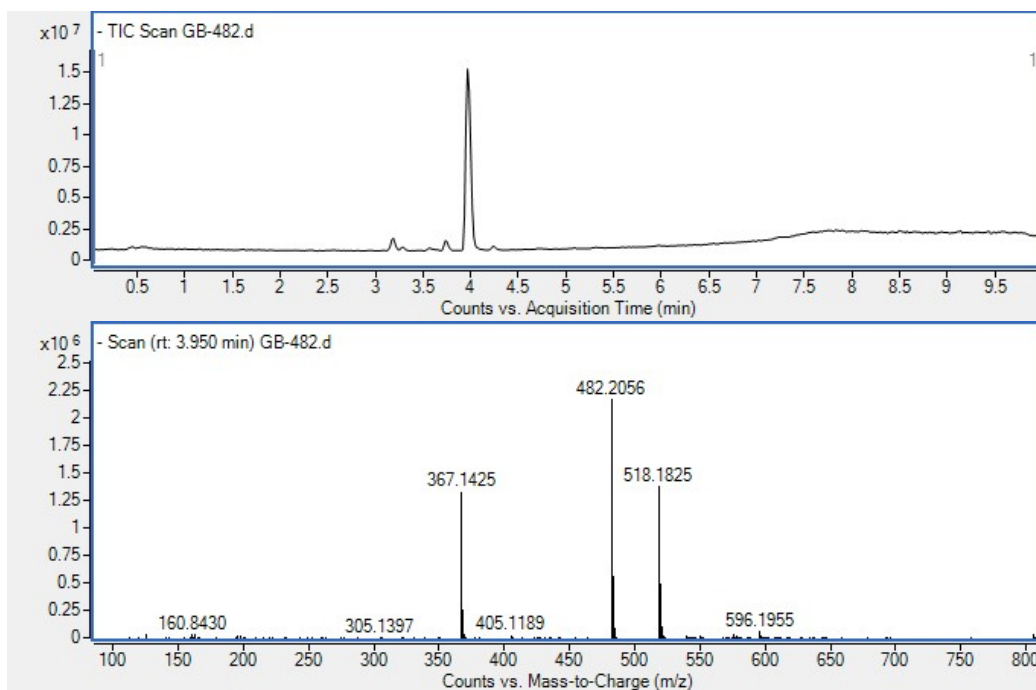


Figure S8 HR-ESI/TOF-MS spectrum of **2**

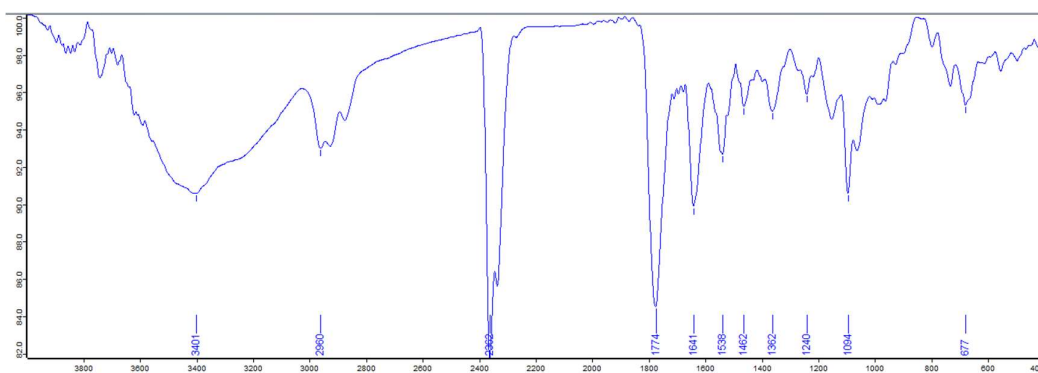


Figure S9 IR spectrum of **2**

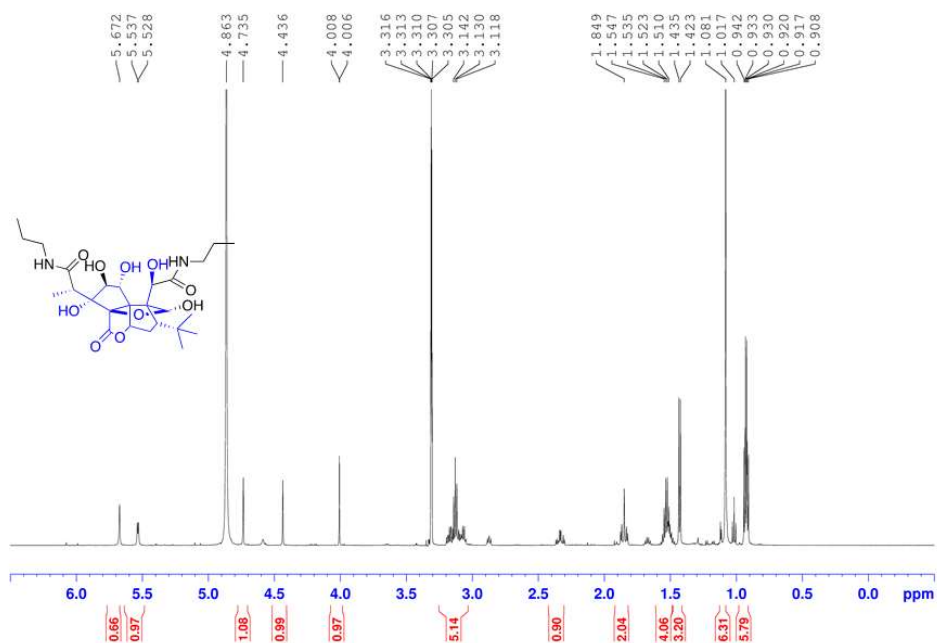


Figure S10 ¹H NMR spectrum of **3**

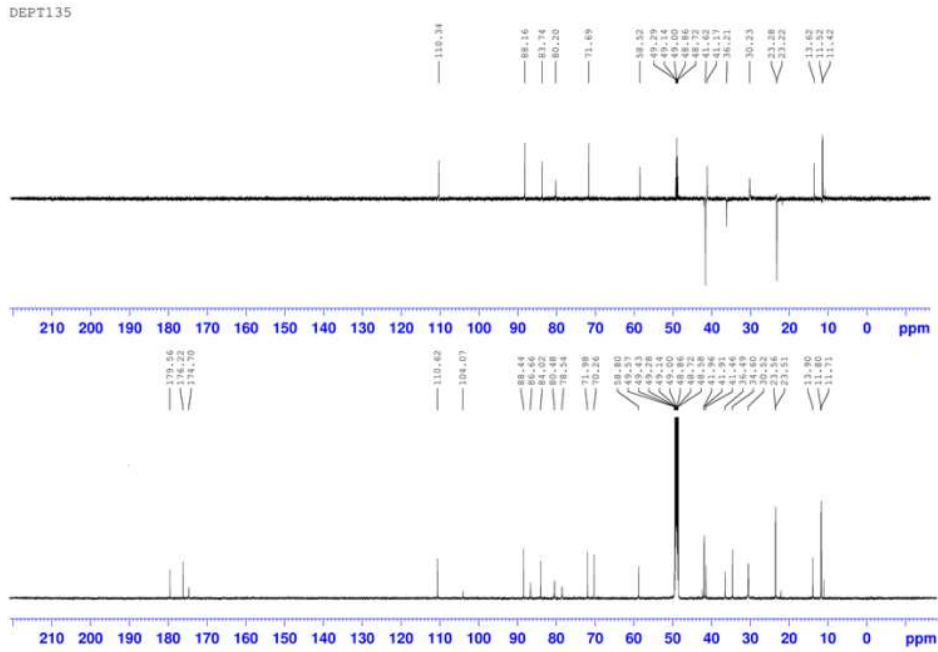


Figure S11 ^{13}C NMR spectrum of **3**

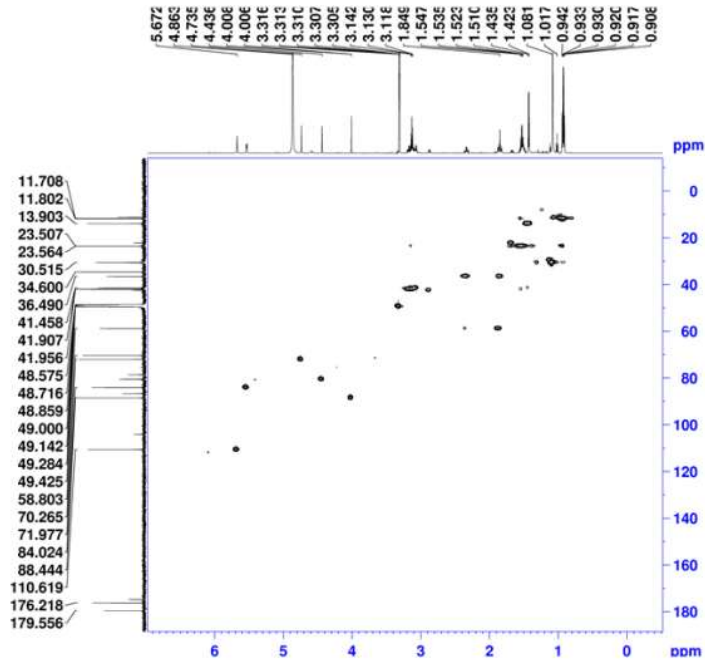


Figure S12 HSQC spectrum of **3**

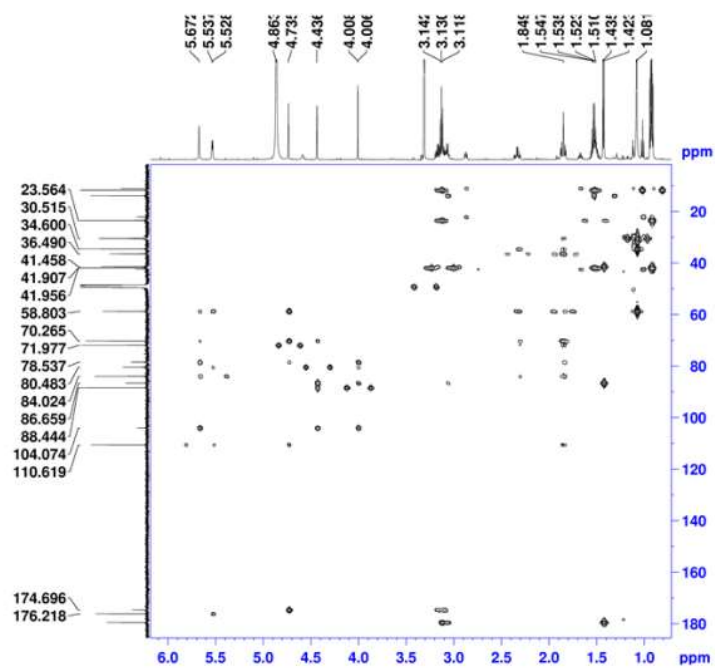


Figure S13 HMBC spectrum of **3**

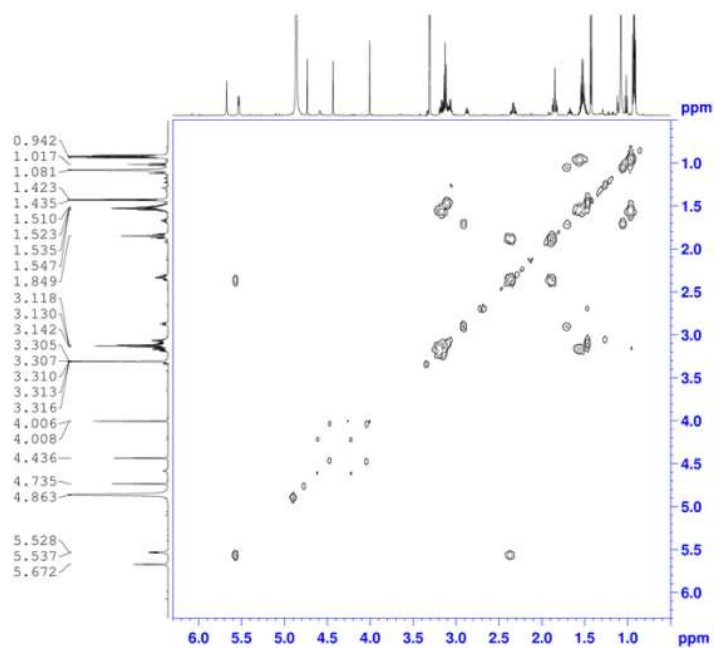


Figure S14 ^1H - ^1H COSY spectrum of **3**

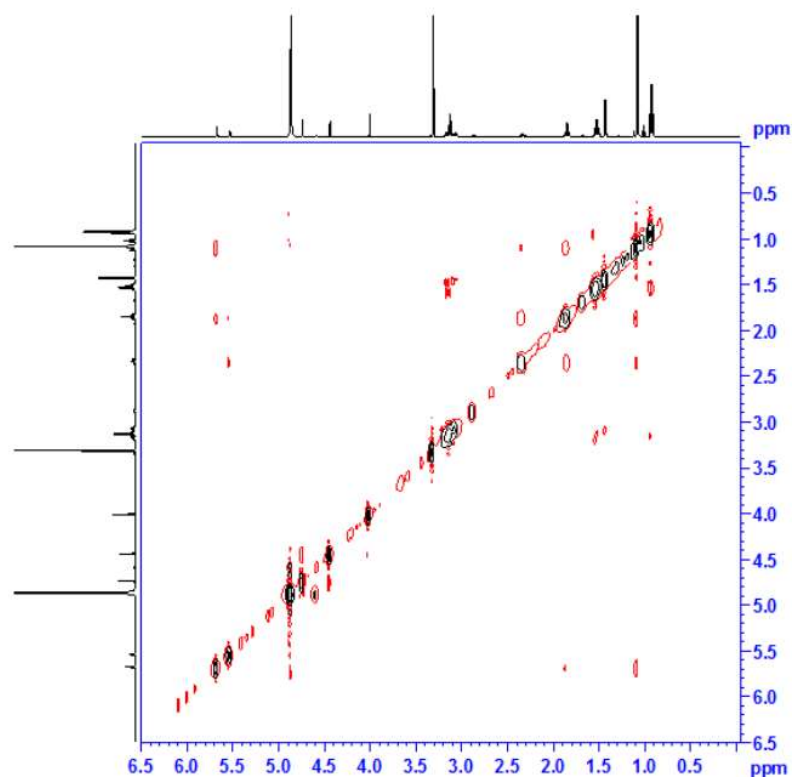


Figure S15 NOESY spectrum of **3**

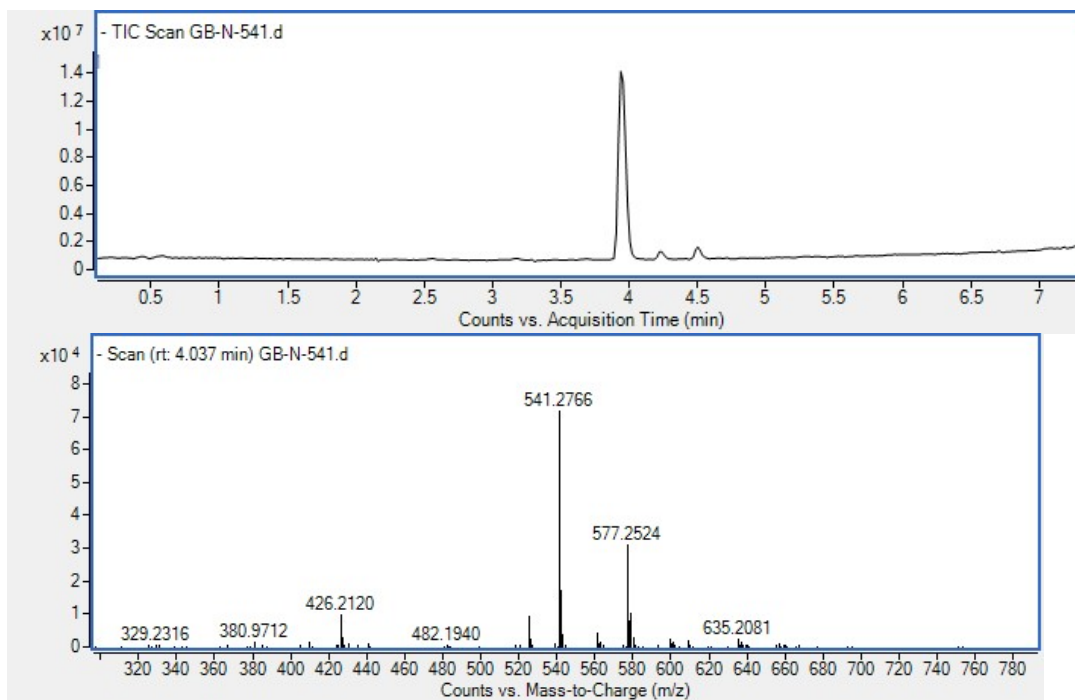


Figure S16 HR-ESI/TOF-MS spectrum of **3**

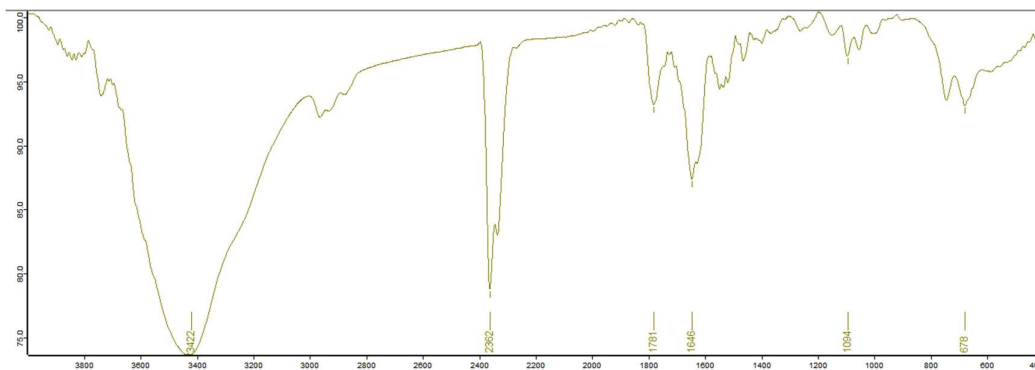


Figure S17 IR spectrum of **3**

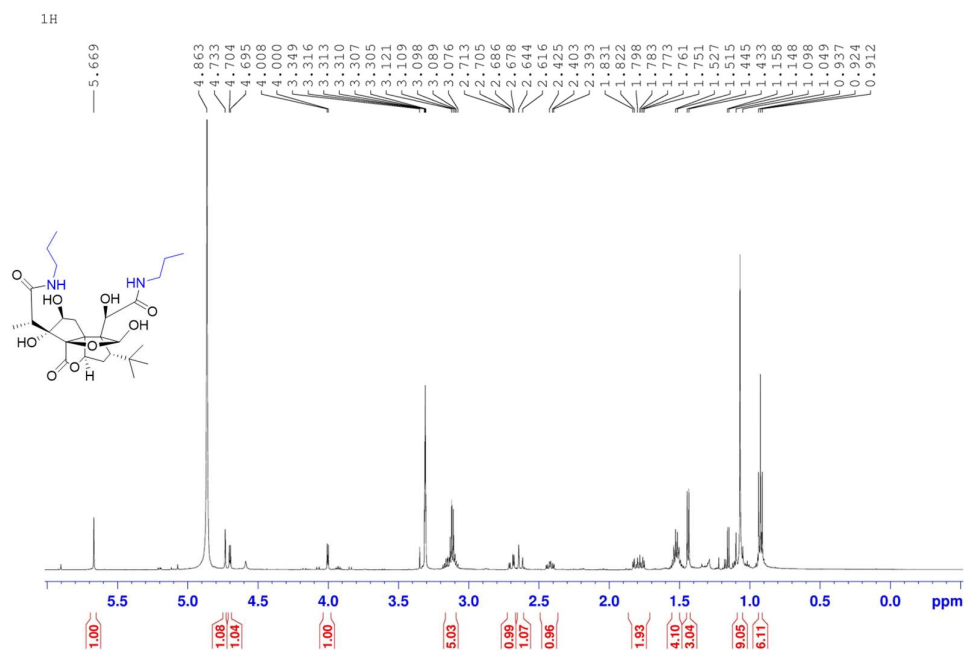


Figure S18 ¹H NMR spectrum of **4**

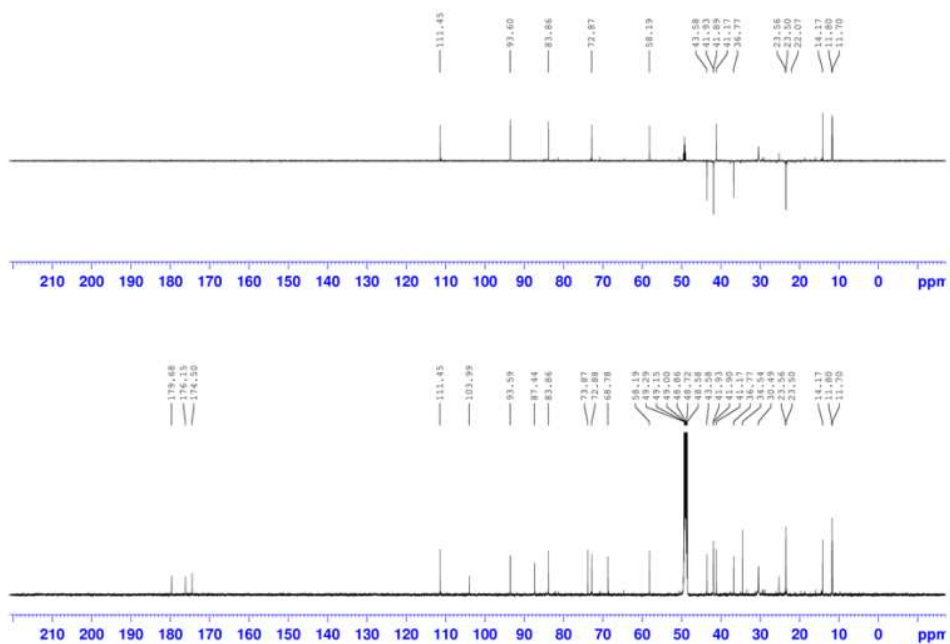


Figure S19 ^{13}C NMR spectrum of **4**

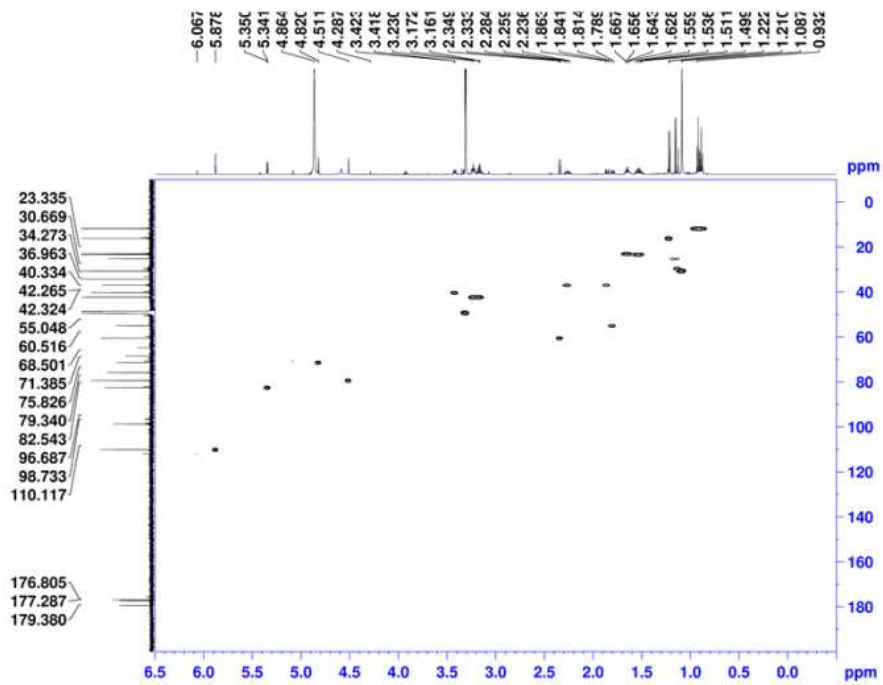


Figure S20 HSQC spectrum of **4**

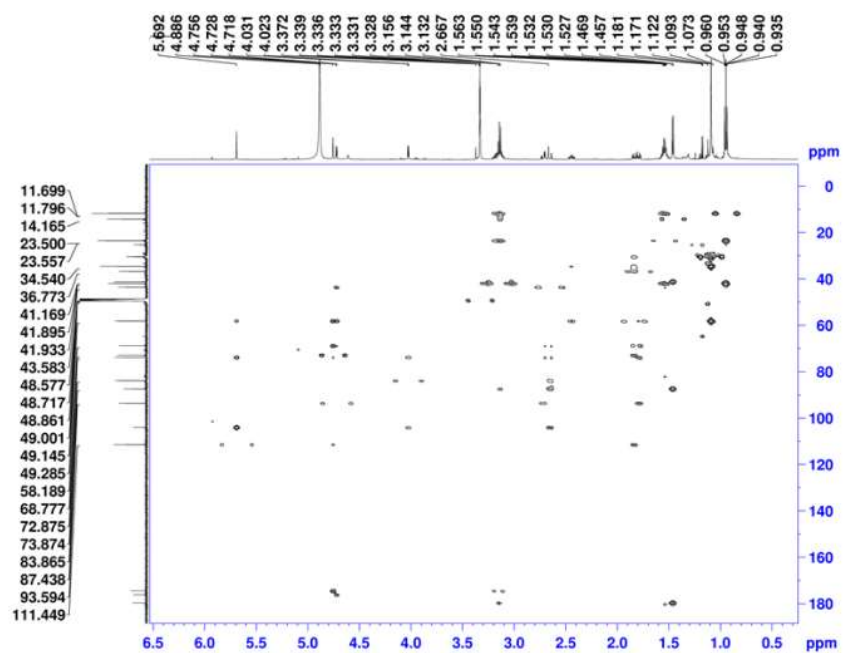


Figure S21 HMBC spectrum of 4

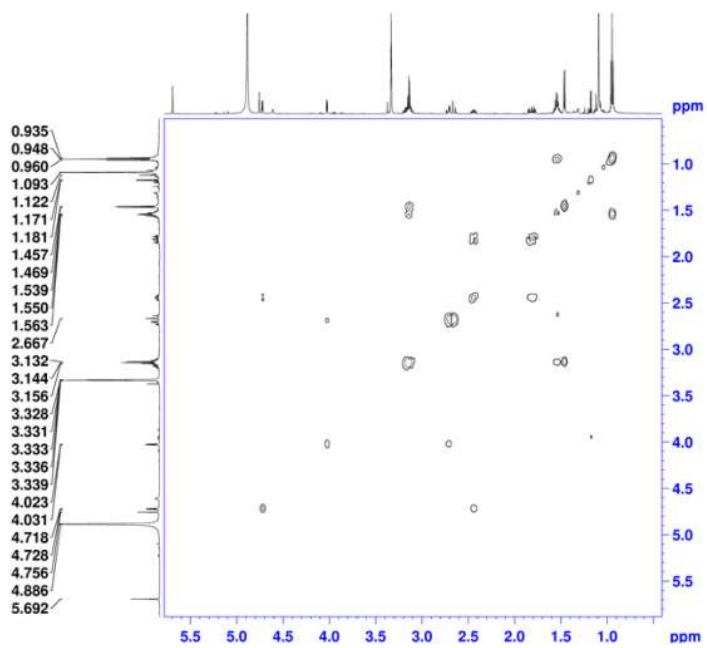


Figure S22 ^1H - ^1H COSY spectrum of 4

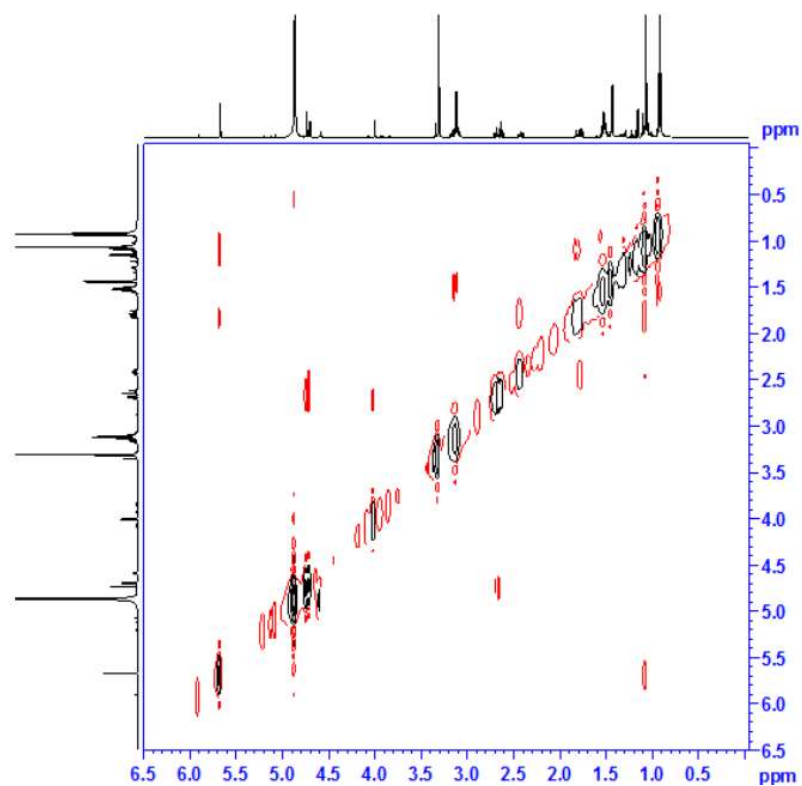


Figure S23 NOESY spectrum of **4**

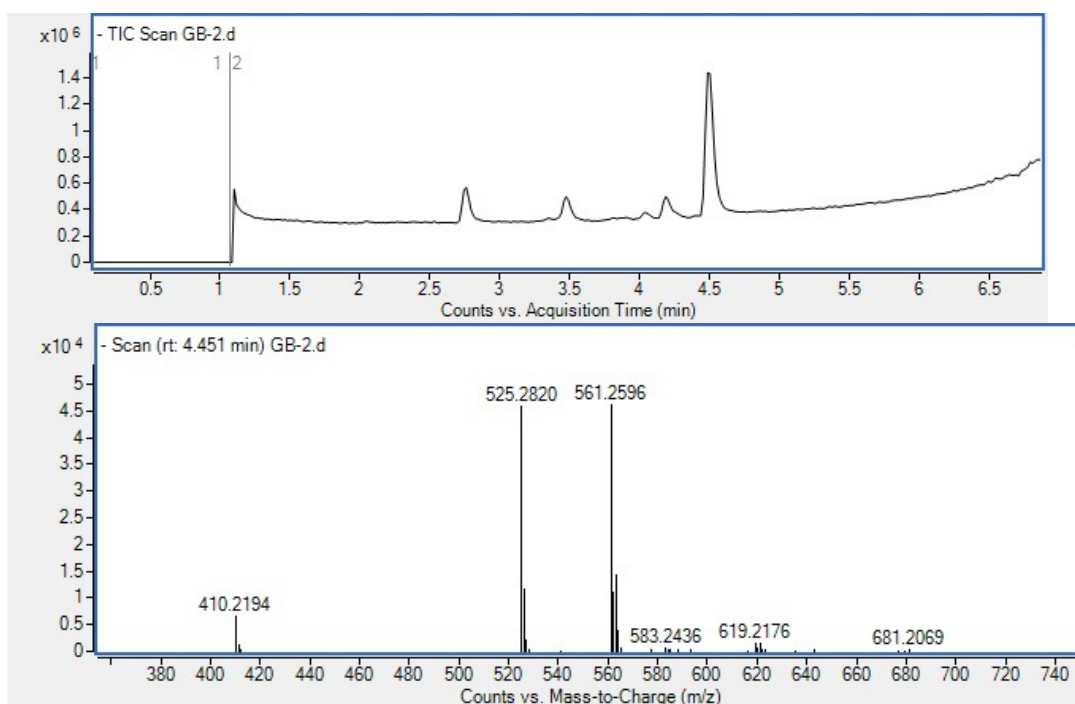


Figure S24 HR-ESI/TOF-MS spectrum of **4**

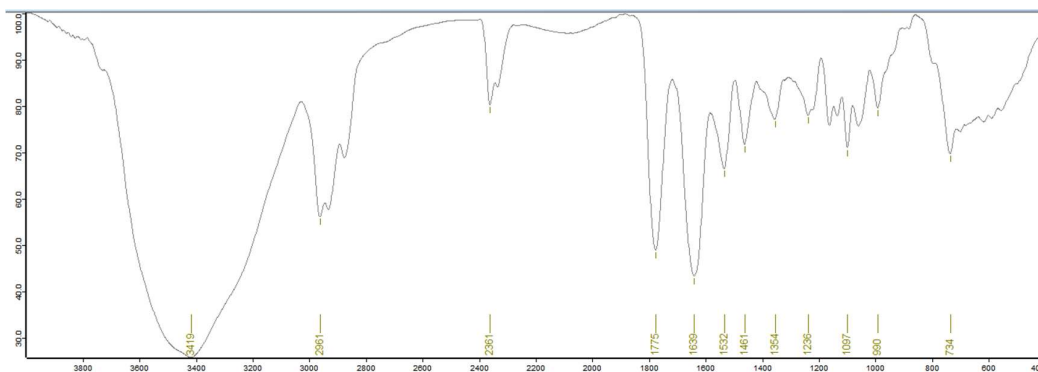


Figure S25 IR spectrum of **4**

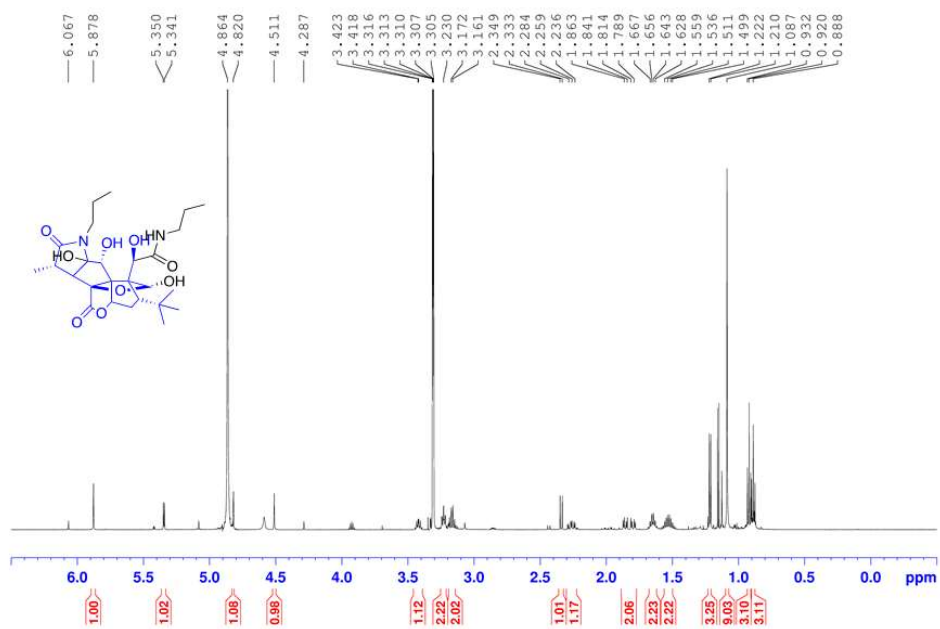


Figure S26 ^1H NMR spectrum of **5**

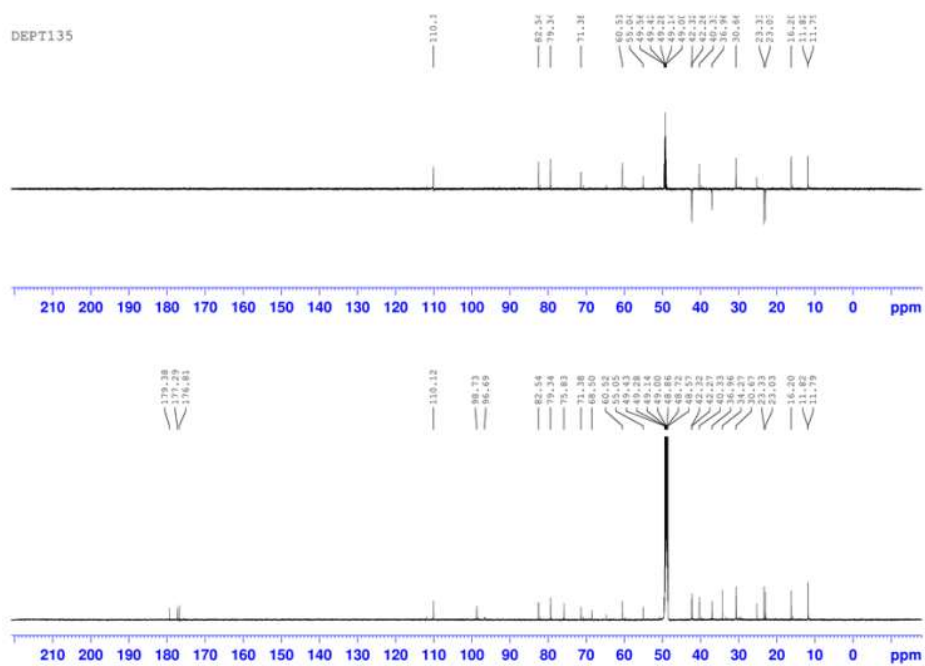


Figure S27 ¹³C NMR spectrum of 5

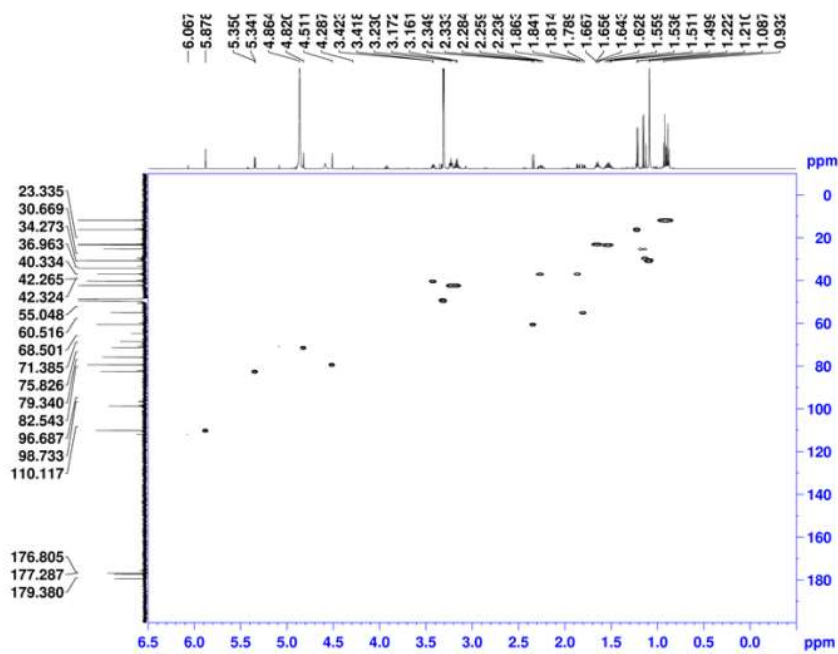


Figure S28 HSQC spectrum of 5

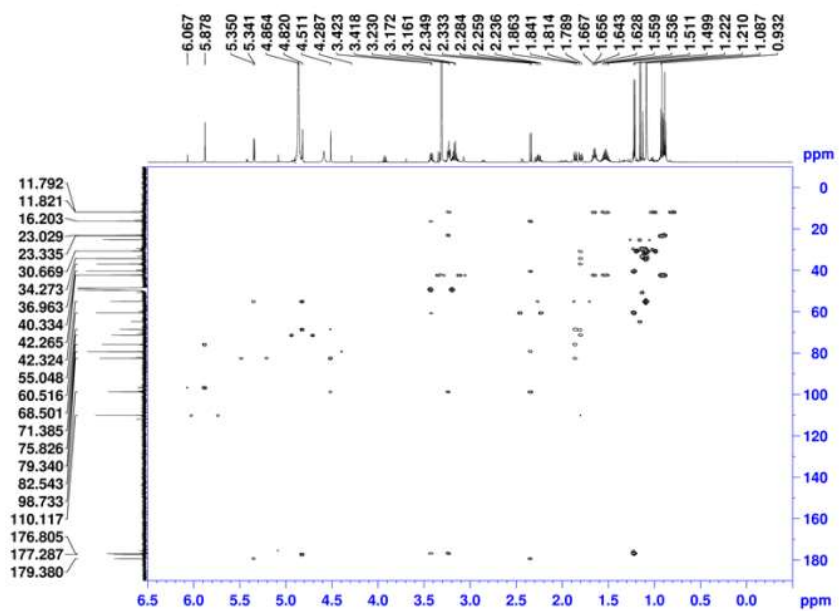


Figure S29 HMBC spectrum of 5

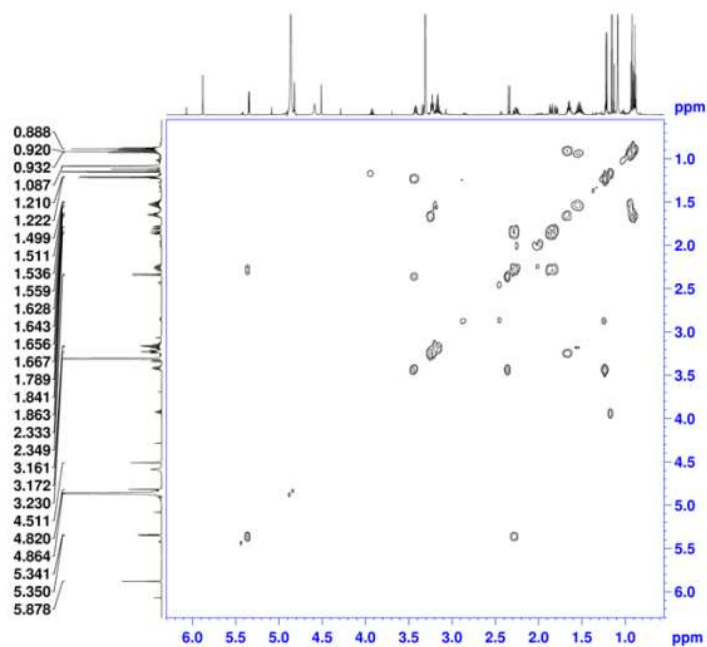


Figure S30 ^1H - ^1H COSY spectrum of 5

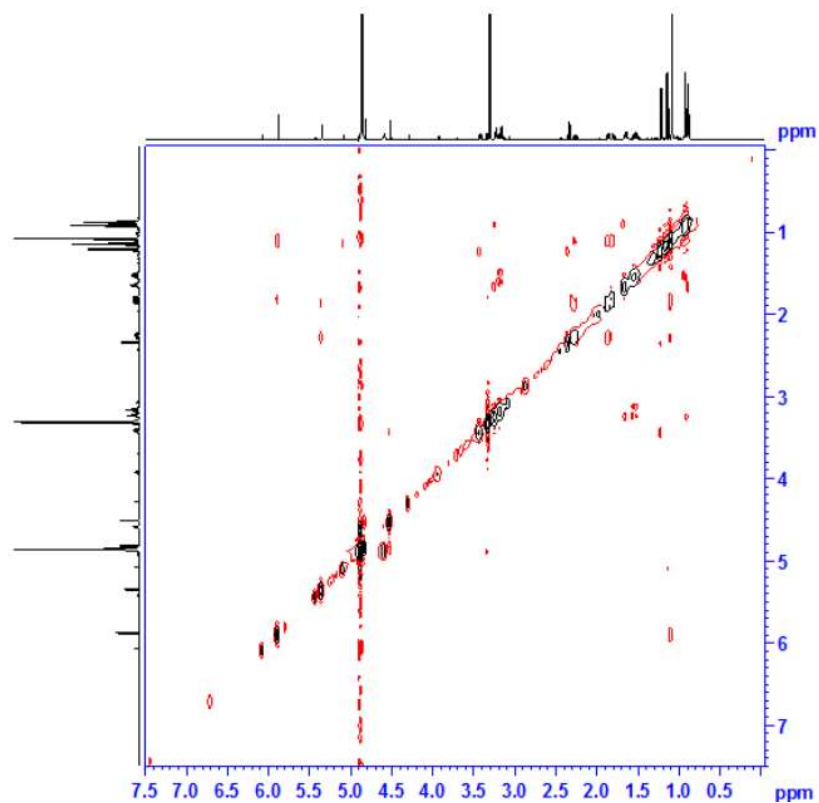


Figure S31 NOESY spectrum of **5**

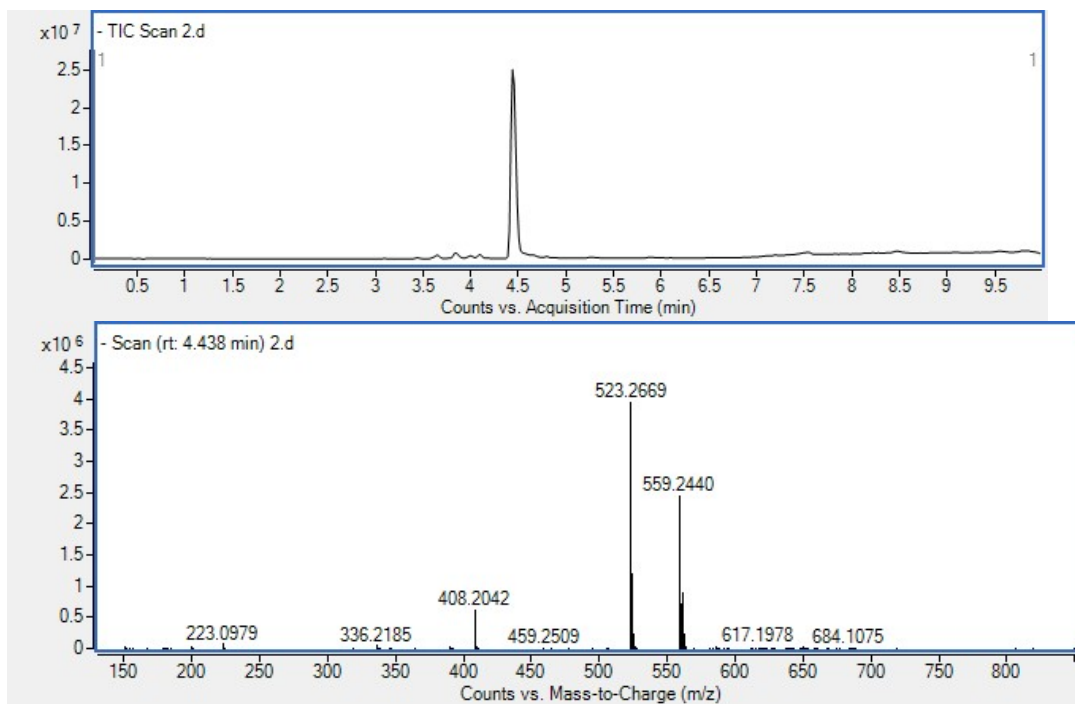


Figure S32 HR-ESI/TOF-MS spectrum of **5**

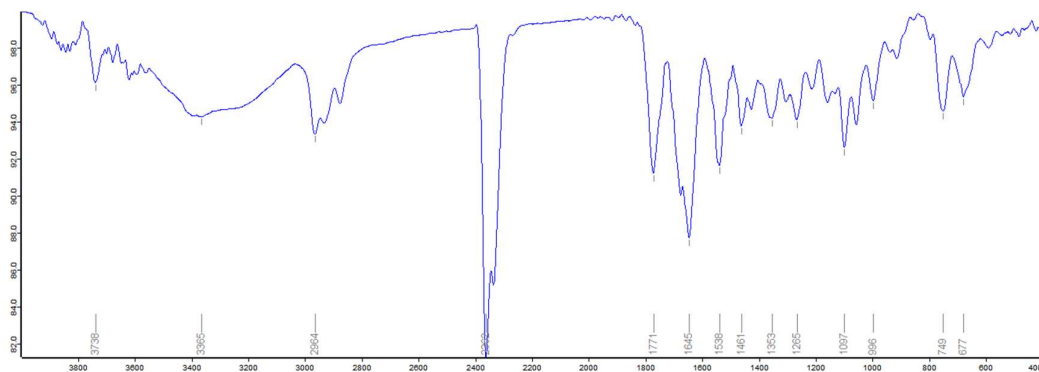


Figure S33 IR spectrum of **5**

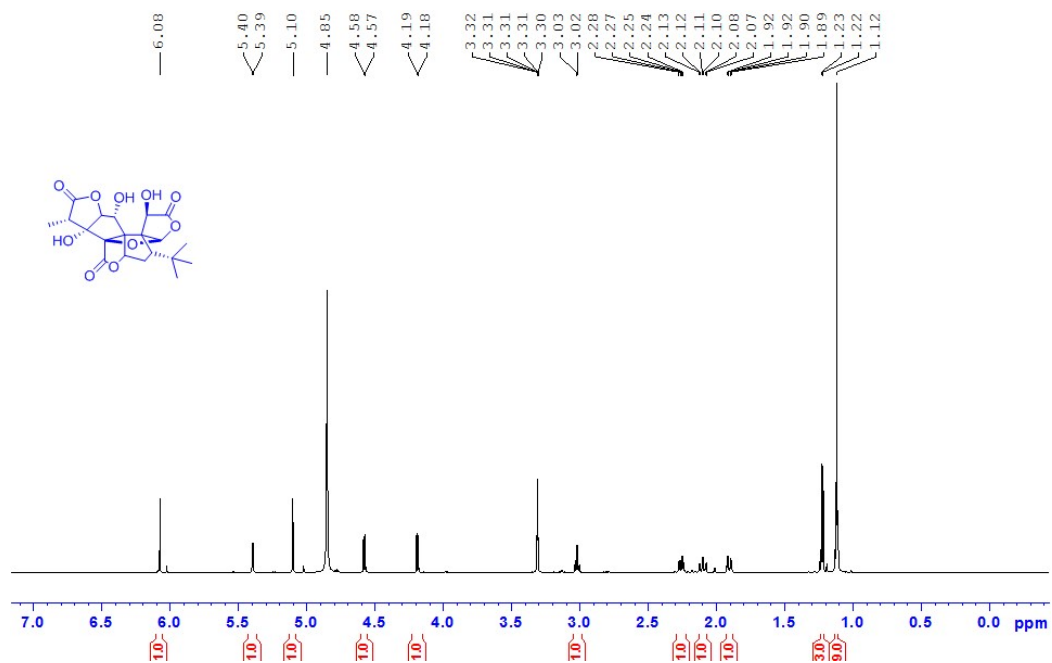


Figure S34 ^1H NMR spectrum of **GB (1)**

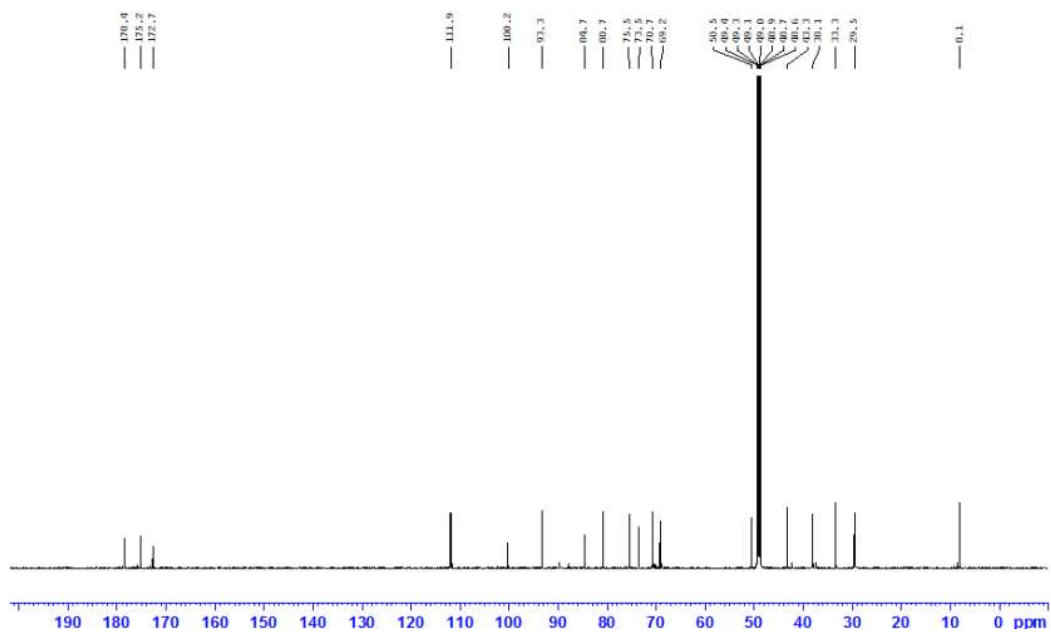


Figure S35 ^{13}C NMR spectrum of **GB (1)**

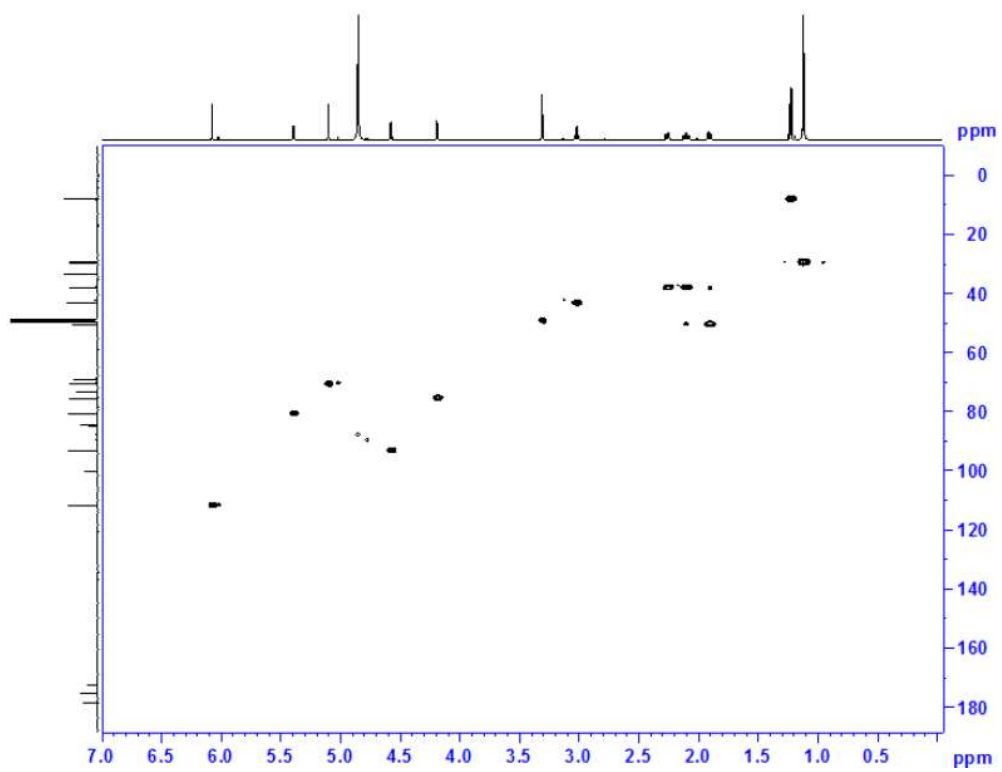


Figure S36 HSQC spectrum of **GB (1)**

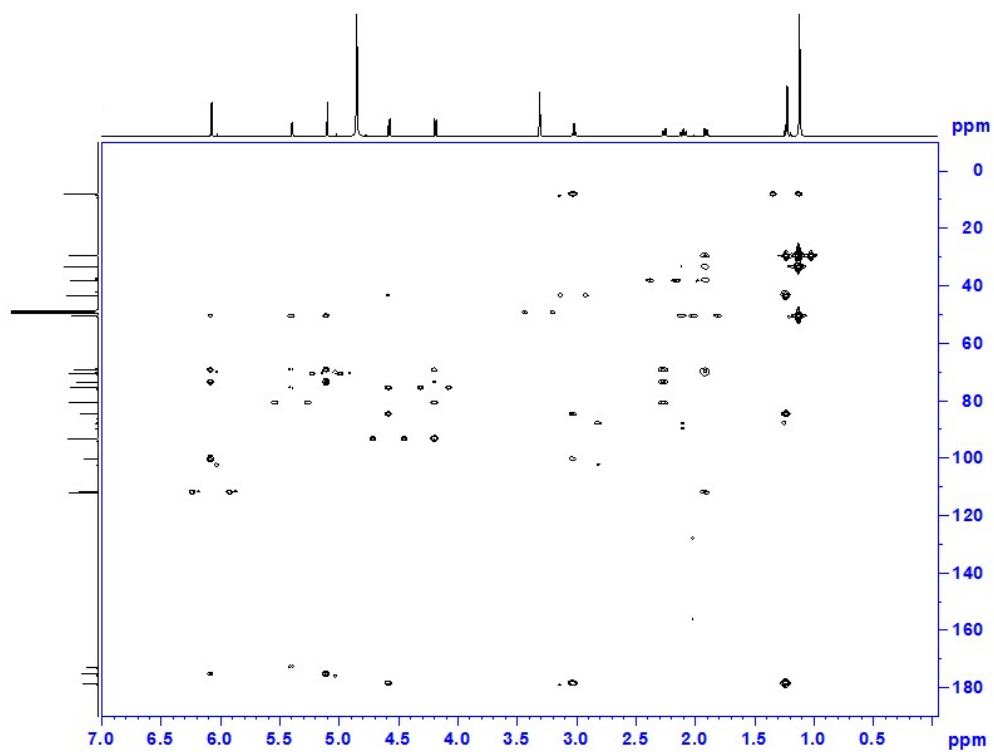


Figure S37 HMBC spectrum of **GB (1)**