

SUPPLEMENTARY MATERIAL

Phytochemical Analysis of the Aerial Parts of *Campanula pelviformis* Lam. (Campanulaceae): Documenting the Dietary Value of a Local Endemic Plant of Crete (Greece) Traditionally Used as Wild Edible Green

Olga St. Tsiftoglou ¹, George Lagogiannis ¹, Antonia Psaroudaki ²,
Aikaterina Vantsioti ¹, Milan N. Mitić ³, Jelena M. Mrmošanin ³ and Diamanto Lazari ^{1,*}

¹ Laboratory of Pharmacognosy, Faculty of Health Sciences, School of Pharmacy, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

² Department of Nutrition and Dietetics, Hellenic Mediterranean University, Tripitos Area (2nd km Sitia–Palekastro), 72300 Sitia, Greece

³ Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, 18000 Niš, Serbia

* Correspondence: dlazari@pharm.auth.gr

Table S1. ¹H and ¹³C NMR of compound 1 (CD₃OD, 500 MHz)

No	δ _C	Type C	δ _H	H	J (Hz)
1	17.4	CH ₃	1.80	3	t (J=7.0)
2	143.9	CH	6.33	1	m
3	109.0	CH	5.58	1	m
4	76.7	C	-	-	-
5	79.8	C	-	-	-
6	71.0	C	-	-	-
7	70.2	C	-	-	-
8	65.1	CH	4.42	1	d (J=6.5)
9	80.4	CH	4.27	1	t (J=7.5)
10	125.2	CH	5.46	1	dd (J=15.5, 8.0)
11	137.4	CH	5.91	1	m
12	28.1	CH ₂	2.19	1	s
13	31.6	CH ₂	1.65	2	m
14	60.8	=CH ₂	3.58	2	t (J=6.5)

1'	99.3	CH	4.32	1	d (J=7.5)
2'	73.4	CH	3.24	1	o.s
3'	77.0-73.4	CH	3.70-3.20	1	o.s
4'	77.0-73.4	CH	3.70-3.20	1	o.s
5'	77.0-73.4	CH	3.70-3.20	1	o.s
6'a	61.3	CH ₂	3.76	1	br d (J=12.0)
6'b			3.38	1	dd (J=12.0, 6.0)

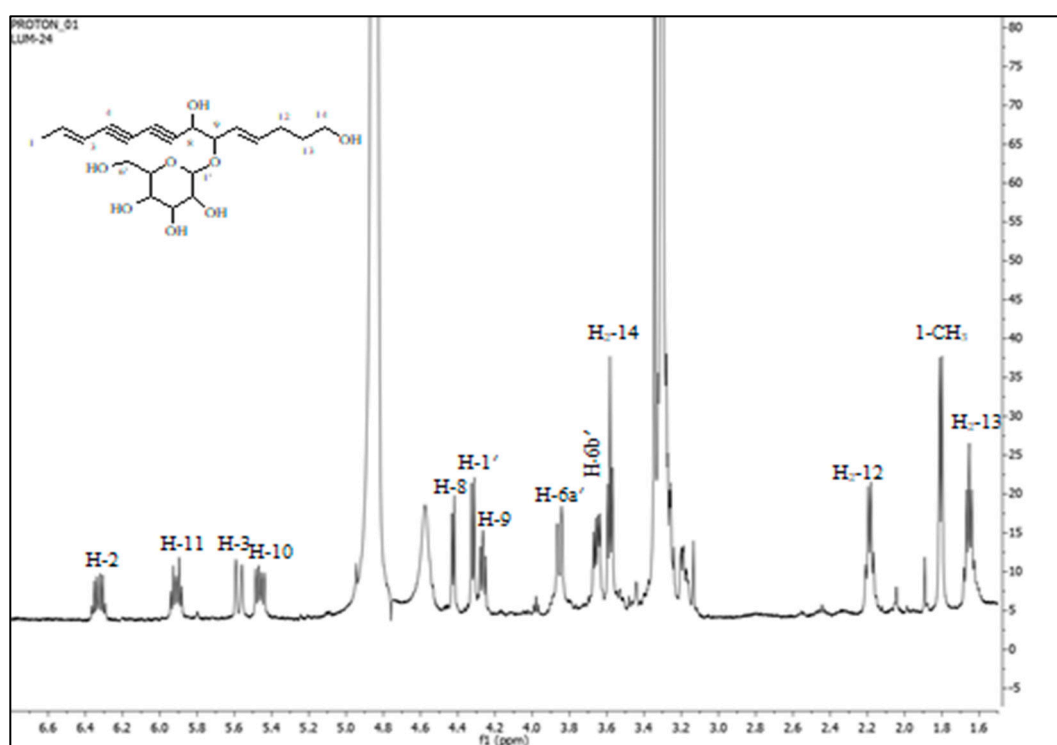


Figure S1. ¹H-NMR spectrum of compound 1 (CD₃OH 500MHz)

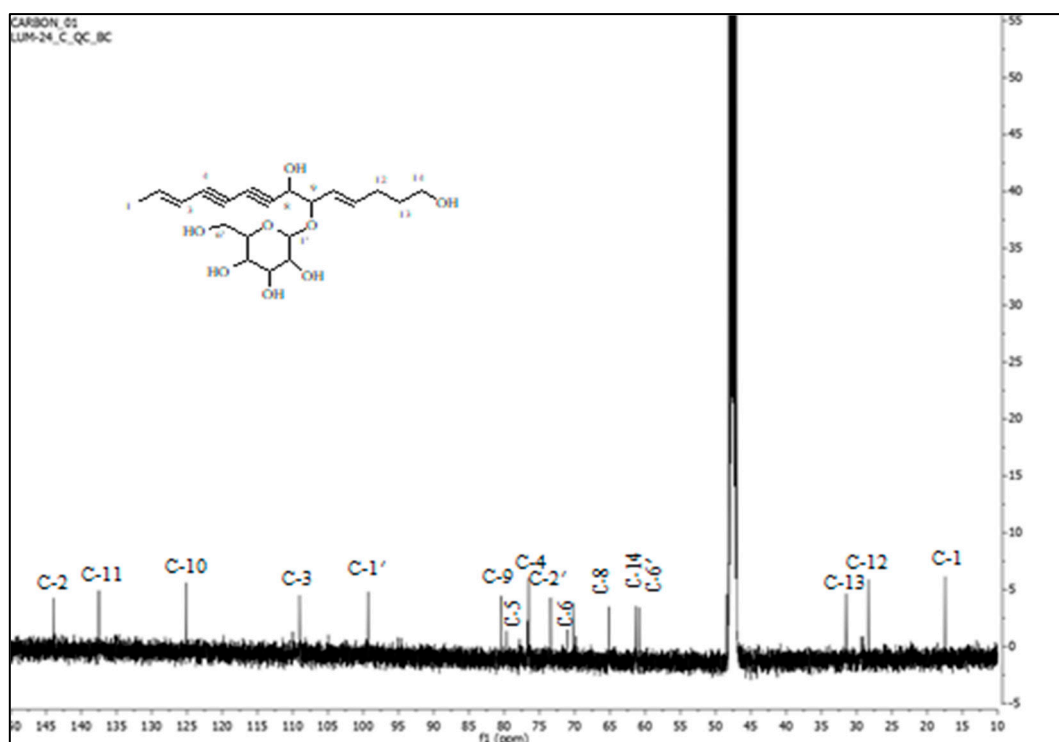


Figure S2. ^{13}C -NMR spectrum of compound 1 (CD_3OD , 125MHz)

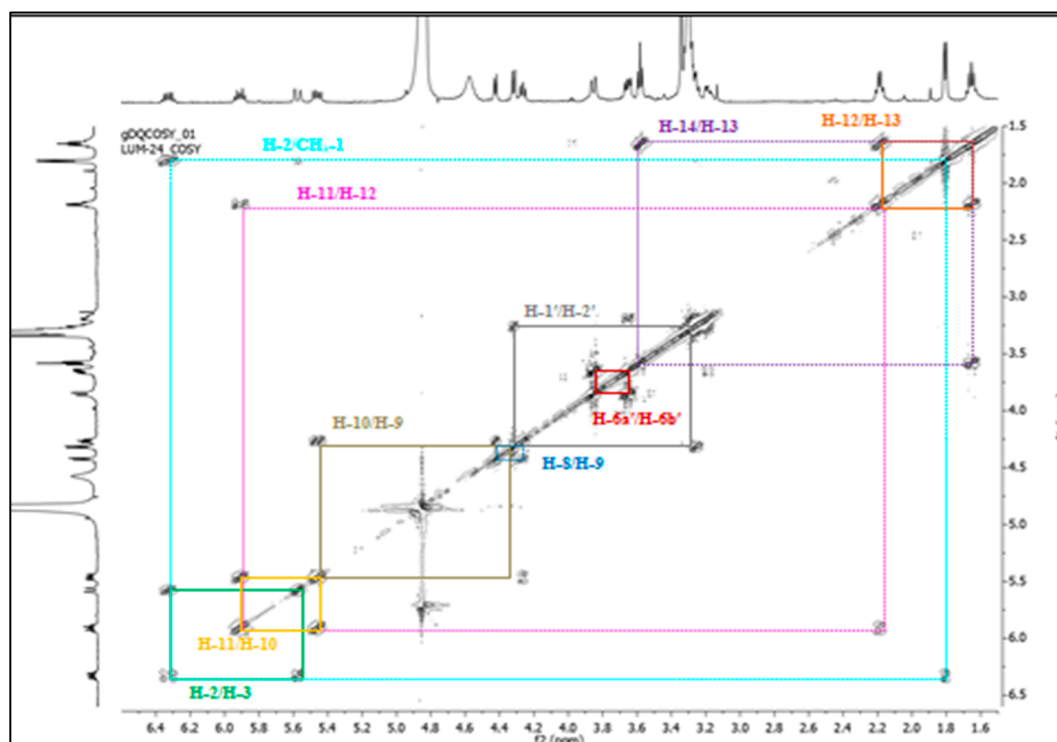


Figure S3. gDQCOSY spectrum of compound 1 (CD_3OD , 500 MHz)

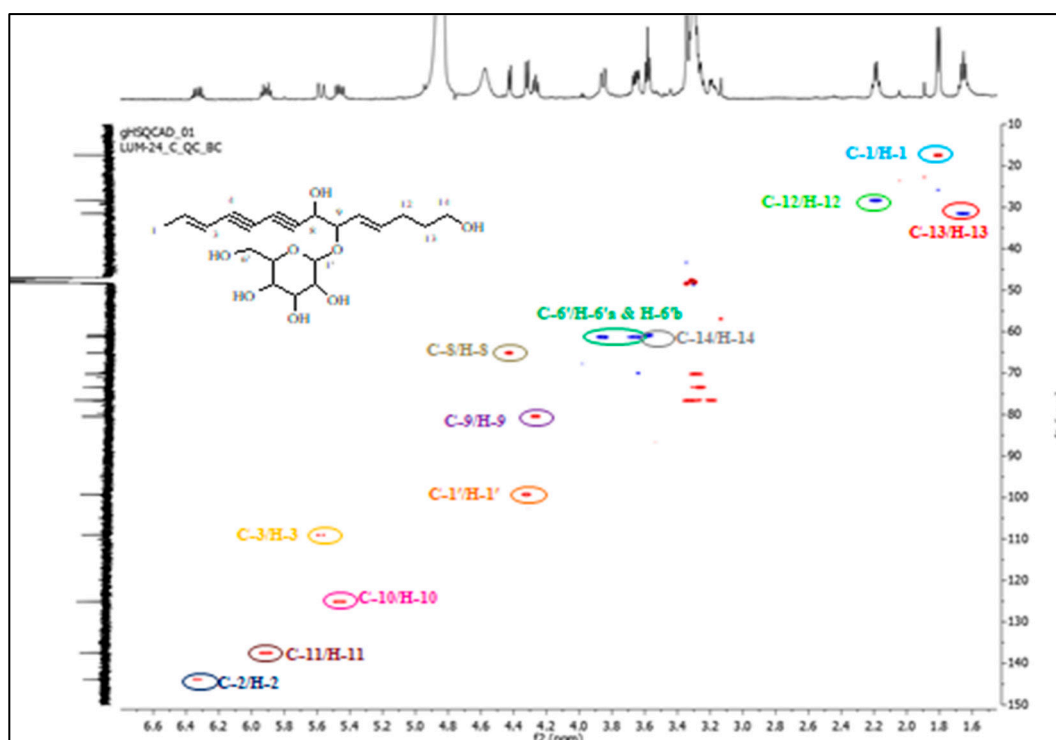


Figure S4. gHSQCAD spectrum of compound 1 (CD₃OD, 500 MHz)

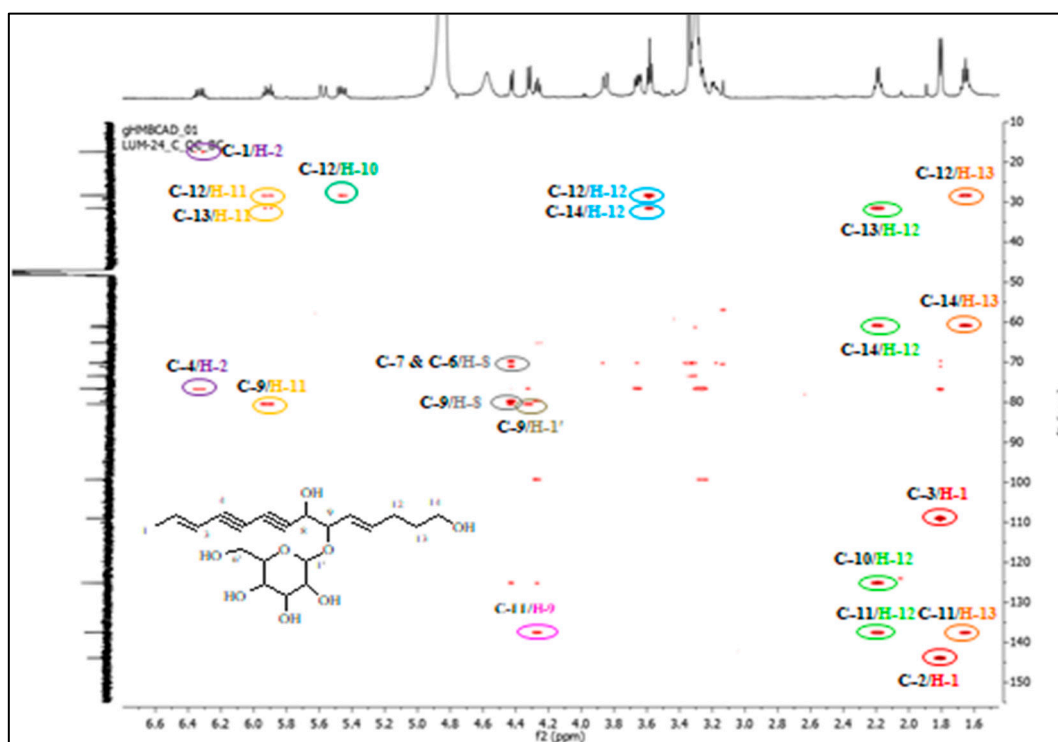


Figure S5. gHMBCAD spectrum of compound 1 (CD₃OD, 500 MHz)

Table S2. ^1H and ^{13}C NMR of compound **2** (CD_3OD , 500 MHz)

No	δ_{C}	Type C	δ_{H}	H	J (Hz)
1a	114.7	$=\text{CH}_2$	5.21	1	d (J=17.5)
1b			5.10	1	d (J=10.5)
2	139.5	CH	5.86	1	dd (J=17.5, 10.5)
3	81.4	CH	4.12	1	m
4a	34.3	CH_2	1.65	1	m
4b			1.54	1	m
5	24.2	CH_2	-	2	o.s
6	31.6	CH_2	-	2	o.s
7	22.2	CH_3	-	3	o.s
8	12.9	CH	4.42	1	d (J=6.5)
1'	101.9	CH	4.30	1	d (J=7.5)
2'	70.9	CH	3.57	1	o.s
3'	76.6-70.2	CH	3.52-3.18	1	o.s
4'	76.6-70.2	CH	3.52-3.18	1	o.s
5'	76.6-70.2	CH	3.52-3.18	1	o.s
6'a	67.7	CH_2	4.02	1	dd (J=11.5, 2.0)
6'b			3.70	1	dd (J=11.5, 4.5)
1''	103.4	CH	4.32	1	d (J=7.5)
2''	73.6	CH	3.18	1	o.s
3''	76.6	CH	3.33	1	o.s
4''	76.6-70.2	CH	3.52-3.18	1	o.s
5''	76.6-70.2	CH	3.52-3.18	1	o.s
6''a	65.0	CH_2	3.85	1	dd (J=12.5, 3.5)
6''b			3.53	1	dd (J=11.5, 2.0)

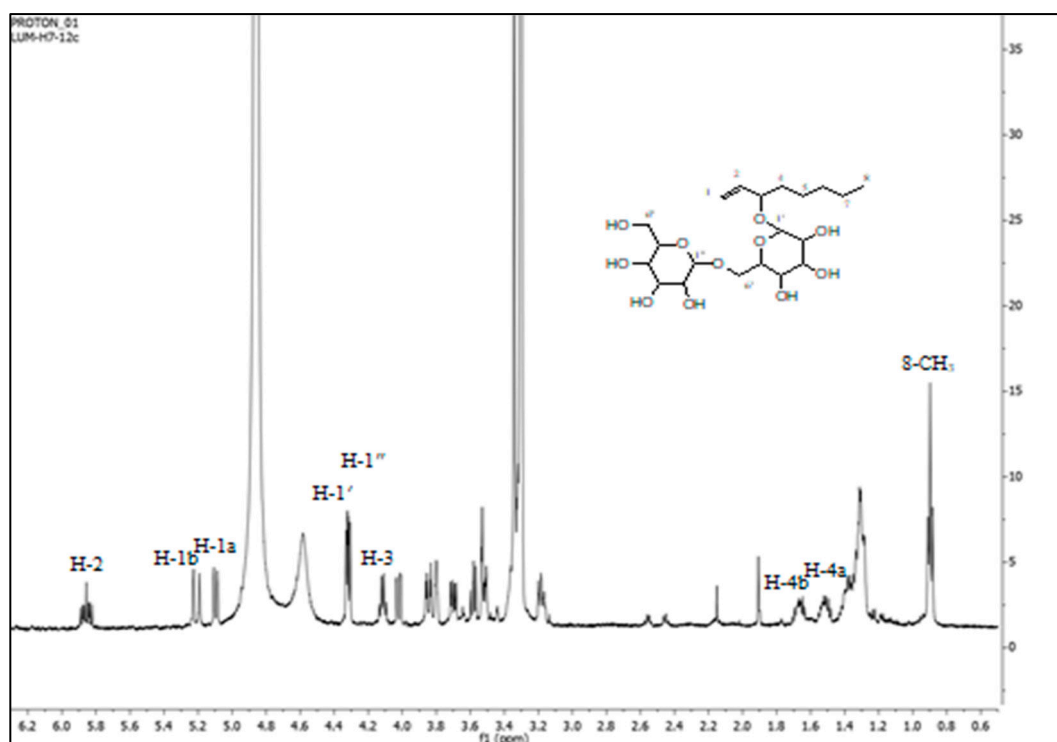


Figure S6. ¹H-NMR spectrum of compound 2 (CD₃OH, 500MHz)

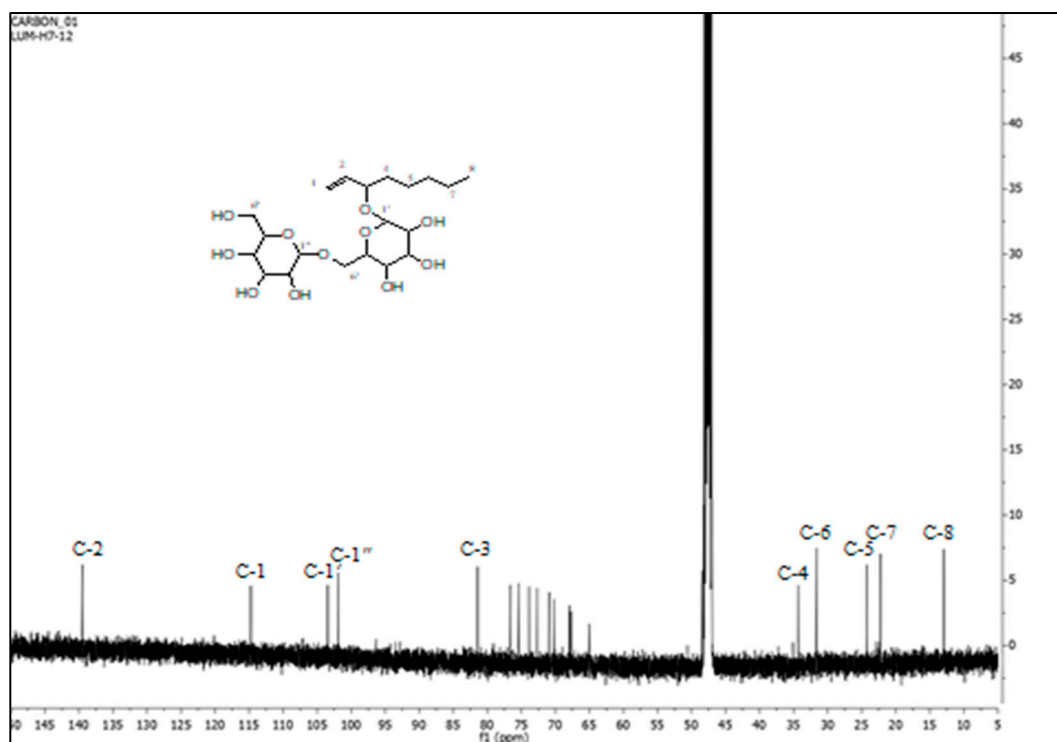


Figure S7. ¹³C-NMR spectrum of compound 2 (CD₃OD, 125MHz)

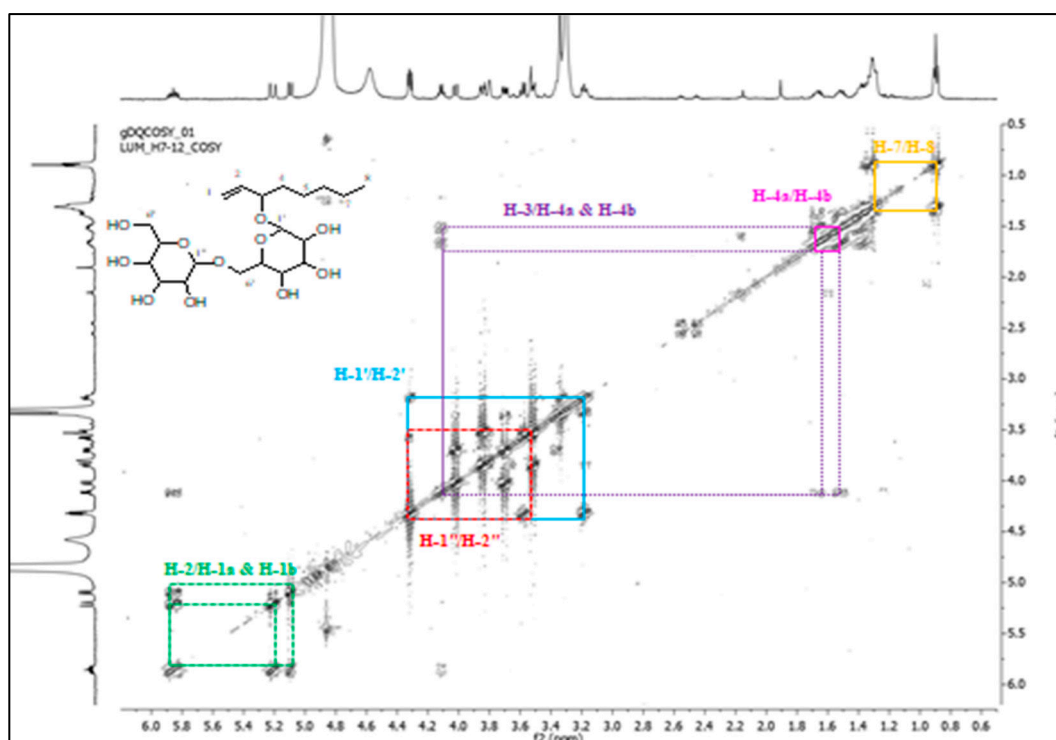


Figure S8. gDQCOSY spectrum of compound 2 (CD₃OD, 500 MHz)

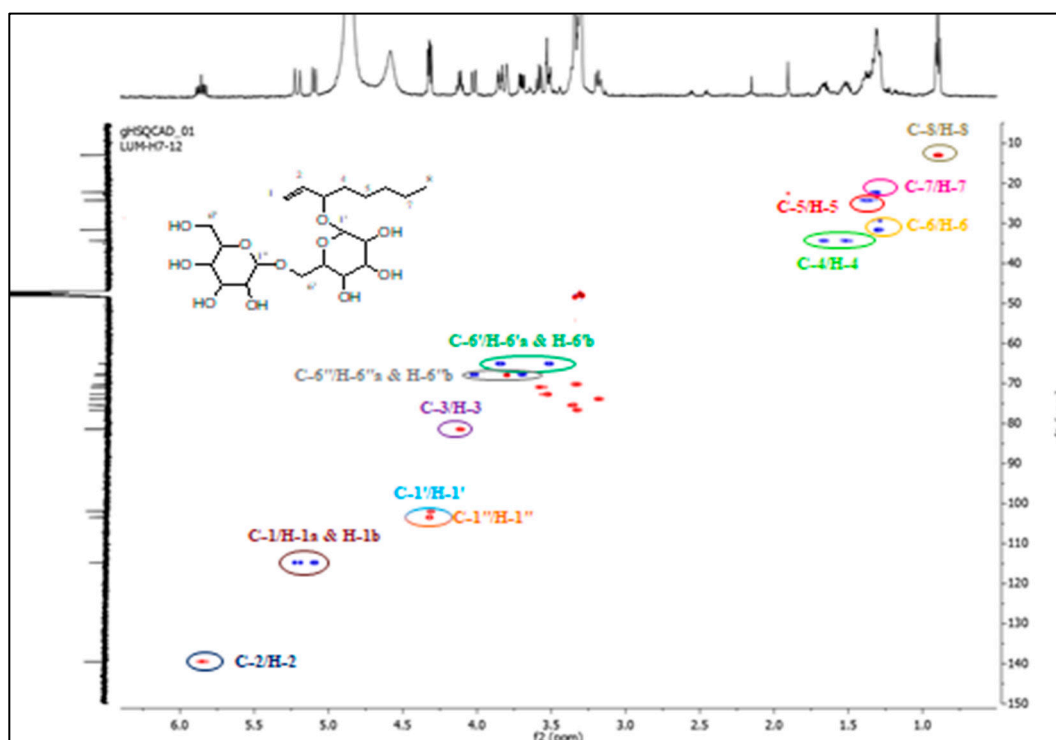


Figure S9. gHSQCAD spectrum of compound 2 (CD₃OD, 500 MHz)

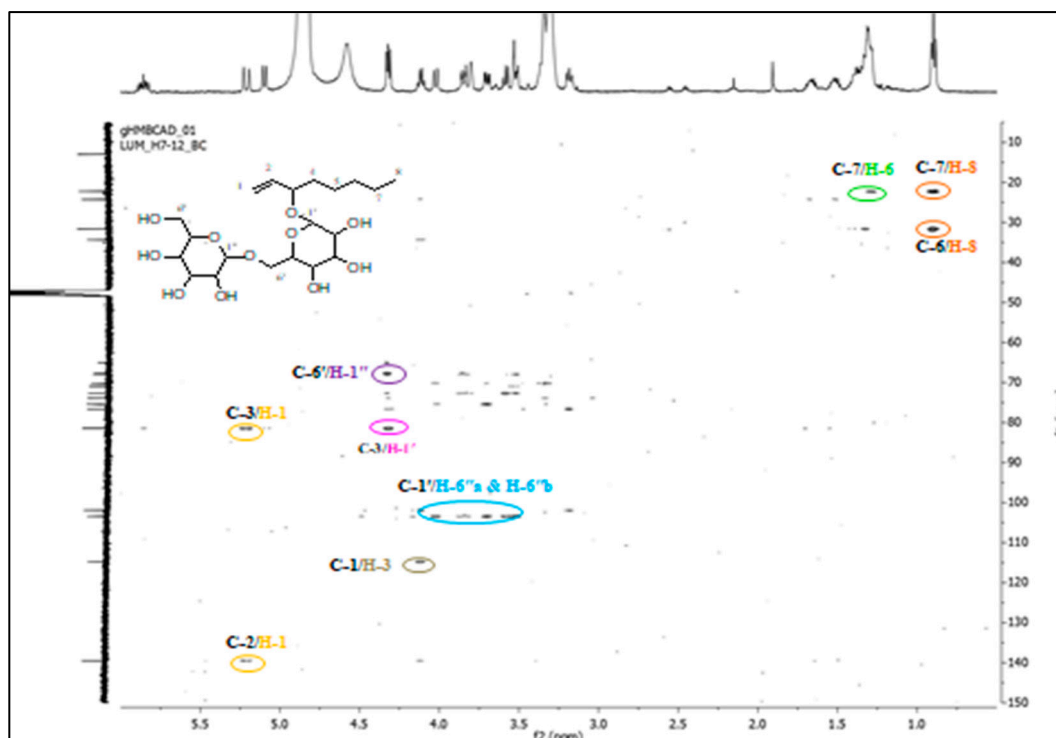


Figure S10. gHMBCAD spectrum of compound **2** (CD₃OD, 500 MHz)

Table S3. ¹H and ¹³C NMR of compound **3** (CD₃OD, 500 MHz)

No	δ _C	Type C	δ _H	H	J (Hz)
1	134.4	C	-	-	-
2	101.9	CH	6.60	1	s
3	152.8	C-OH	-	-	-
4	133.3	C-OH	-	-	-
5	150.4	C-OH	-	-	-
6	107.2	CH	6.58	1	s
α	62.1	CH ₂	4.20	2	d (J=5.5)
β	128.5	CH	6.27	1	dd (J=16.0, 5.5)
γ	129.9	CH	6.48	1	d (J=16.0)
1'	105.3	CH	4.67	1	d (J=7.5)
2'	76.2	CH	3.11	1	o.s
3'	73.9	CH	3.50	1	o.s
4'	69.4	CH	3.43	1	o.s
5'	76.9	CH	3.20	1	d (J=7.5)
6'a	60.6	CH ₂	3.80	1	o.s
6'b			3.68	1	o.s

-OCH ₃	55.3	CH ₃	3.84	3	s
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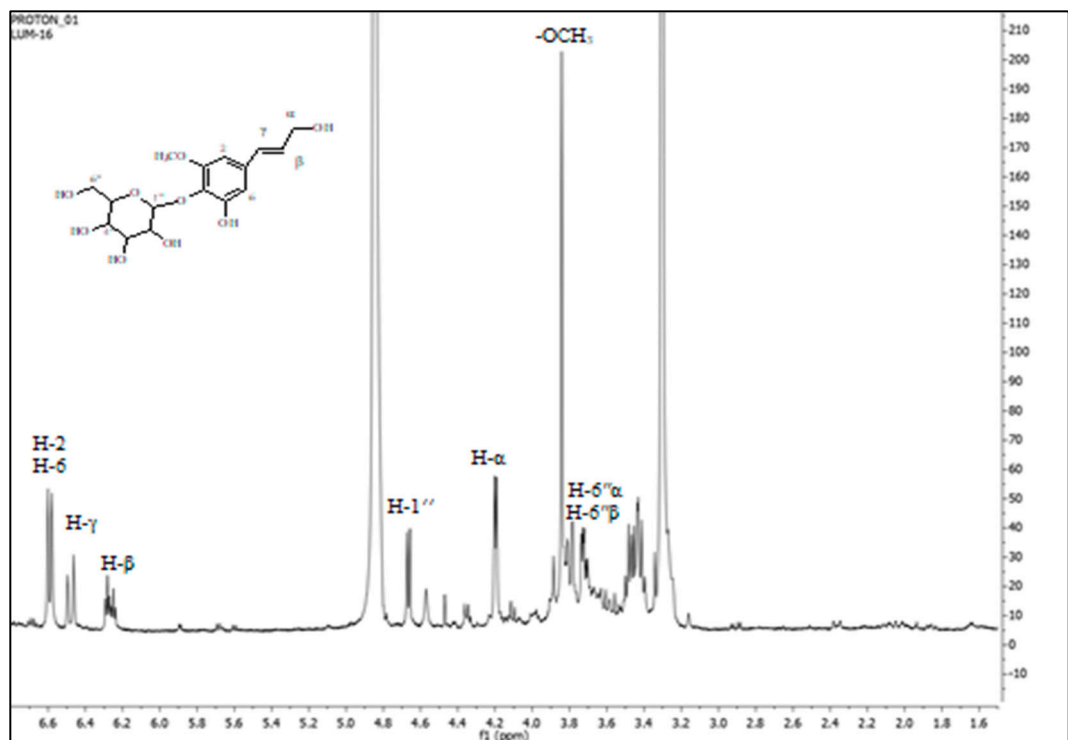


Figure S11. ¹H-NMR spectrum of compound 3 (CD₃OD, 500 MHz)

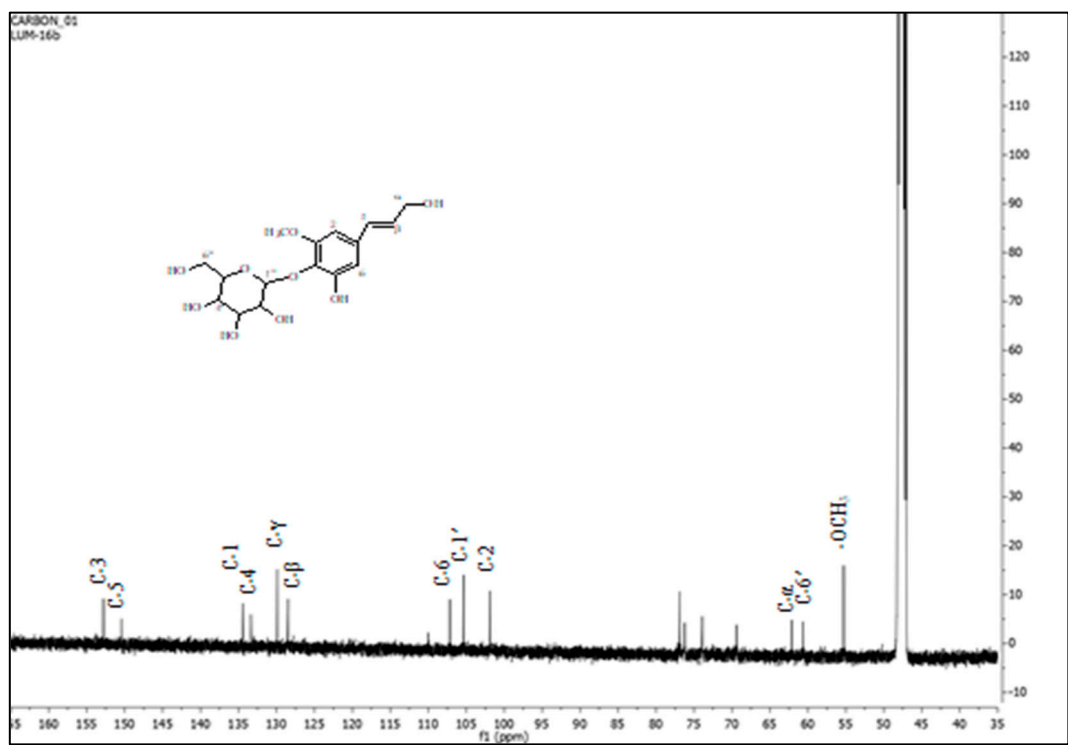
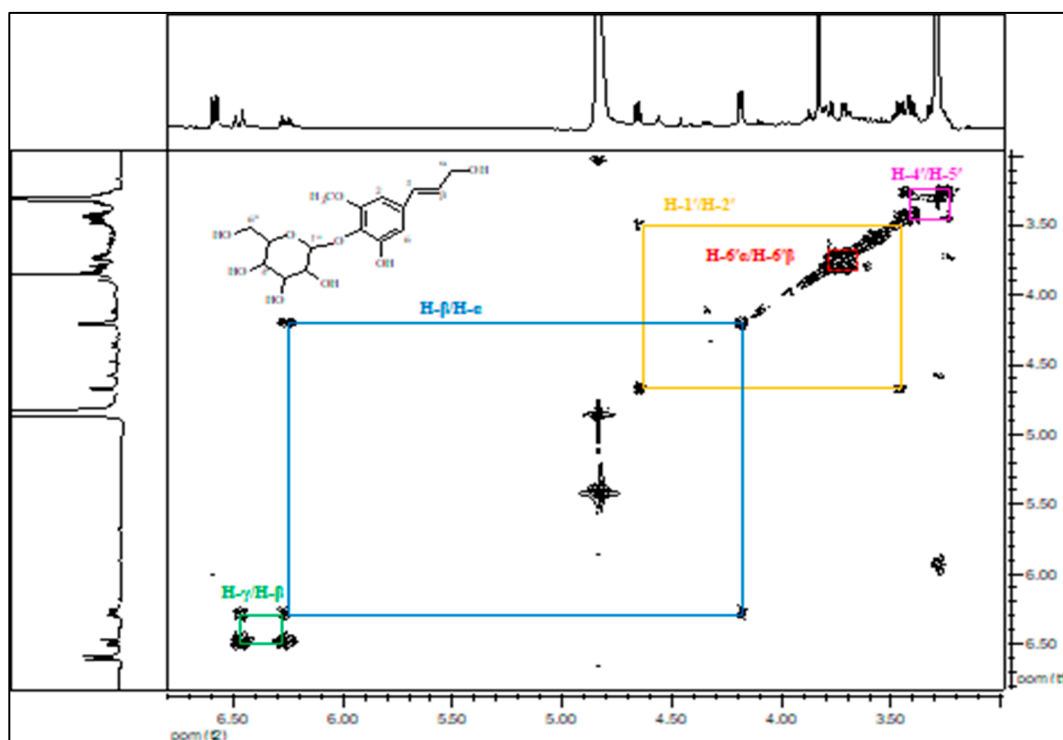


Figure S12. ¹³C-NMR spectrum of compound 3 (CD₃OD, 125 MHz)



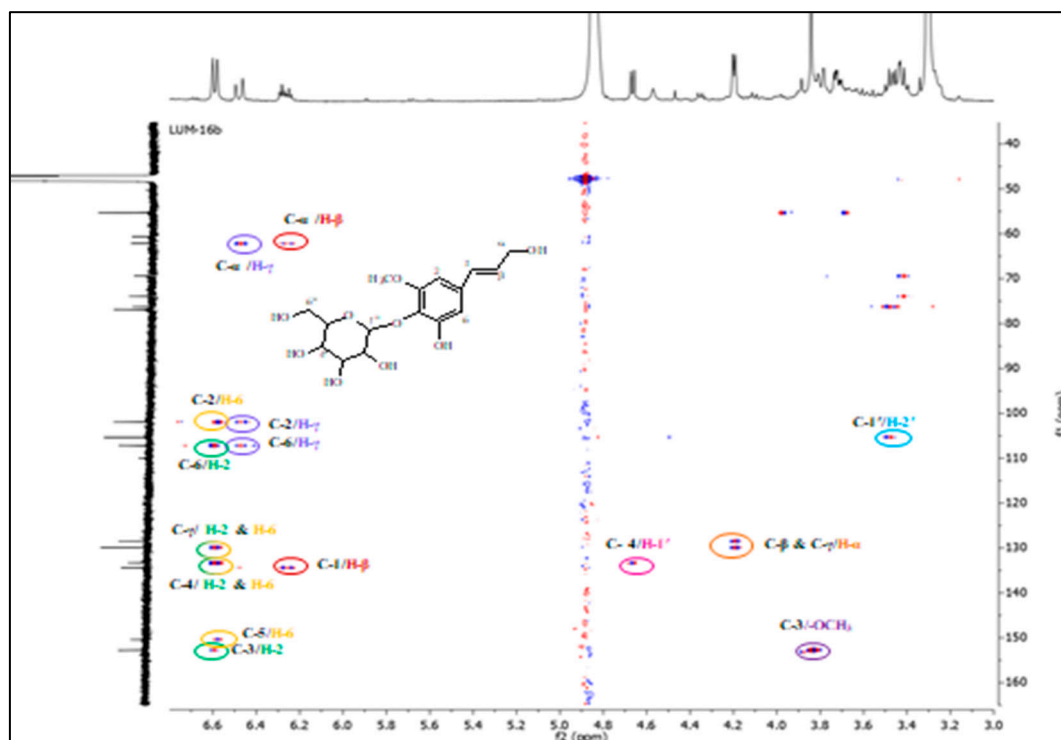


Figure S15. gHMBCAD spectrum of compound 3 (CD₃OD, 500 MHz)

Table S4. ¹H and ¹³C NMR of compound 4 (CD₃OD, 500 MHz)

No	δ _C	Type C	δ _H	H	(Hz)
1	133.7	C	-	-	-
2	102.1	CH	6.61	1	s
3	152.8	C-OH	-	-	-
4	133.7	C-OH	-	-	-
5	150.5	C-OH	-	-	-
6	107.4	CH	6.60	1	s
α	64.6	CH ₂	4.71	2	d (J=6.5)
β	122.9	CH	6.24	1	dd (J=16.0, 7.5)
γ	133.3	CH	6.56	1	d (J=16.0)
1'	175.0	C	-	-	-
2'a	45.1	CH ₂	2.58	1	d (J=15.5)
2'b			2.70	1	s
3'	69.4	C	-	-	-
4'a	45.1	CH ₂	2.70	1	s
4'b			2.63	1	d (J=15.5)

5'	171.1	CH	6.87	1	d (J=7.5)
6'	26.4	CH ₃	1.37	3	s
1''	105.3	CH	4.68	1	d (J=8.0)
2''	73.9	CH	3.48	1	o.s
3''	76.2	CH	3.42	1	o.s
4''	69.4	CH	3.45	1	o.s
5''	76.9	CH	3.25	1	o.s
6''a	60.6	CH ₂	3.80	1	dd (J=12.0, 1.5)
6''b			3.72	1	dd (J=12.0, 4.5)
-OCH ₃	55.3	CH ₃	3.84	3	s

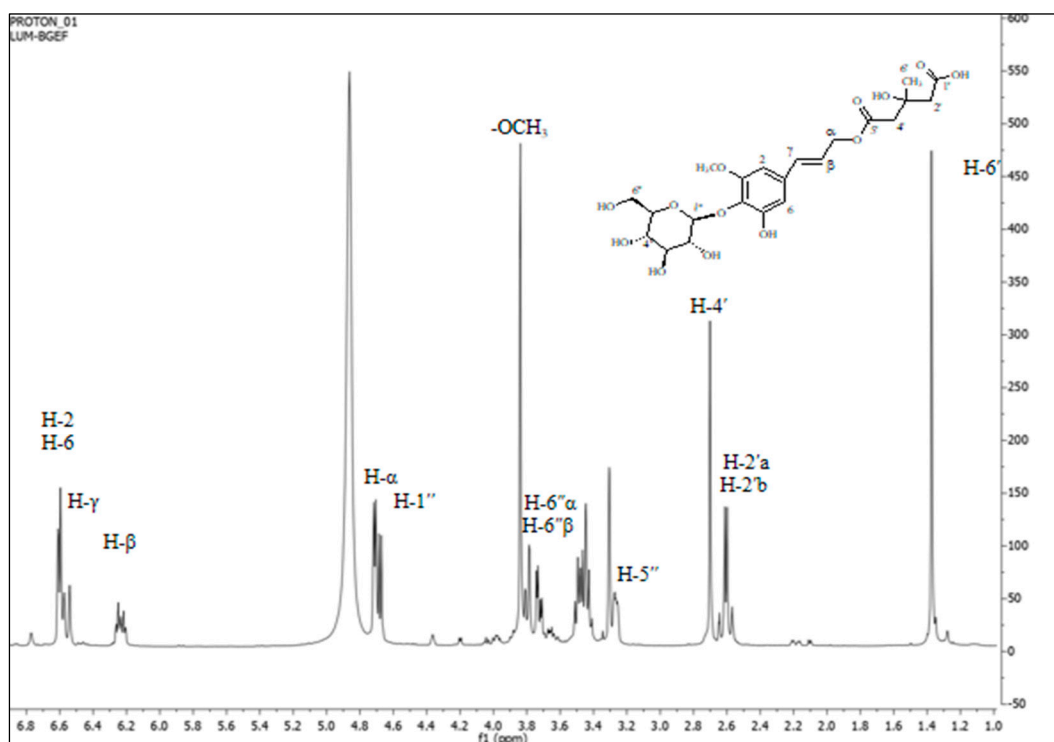


Figure S16. ¹H-NMR spectrum of compound 4 (CD₃OD, 500 MHz)

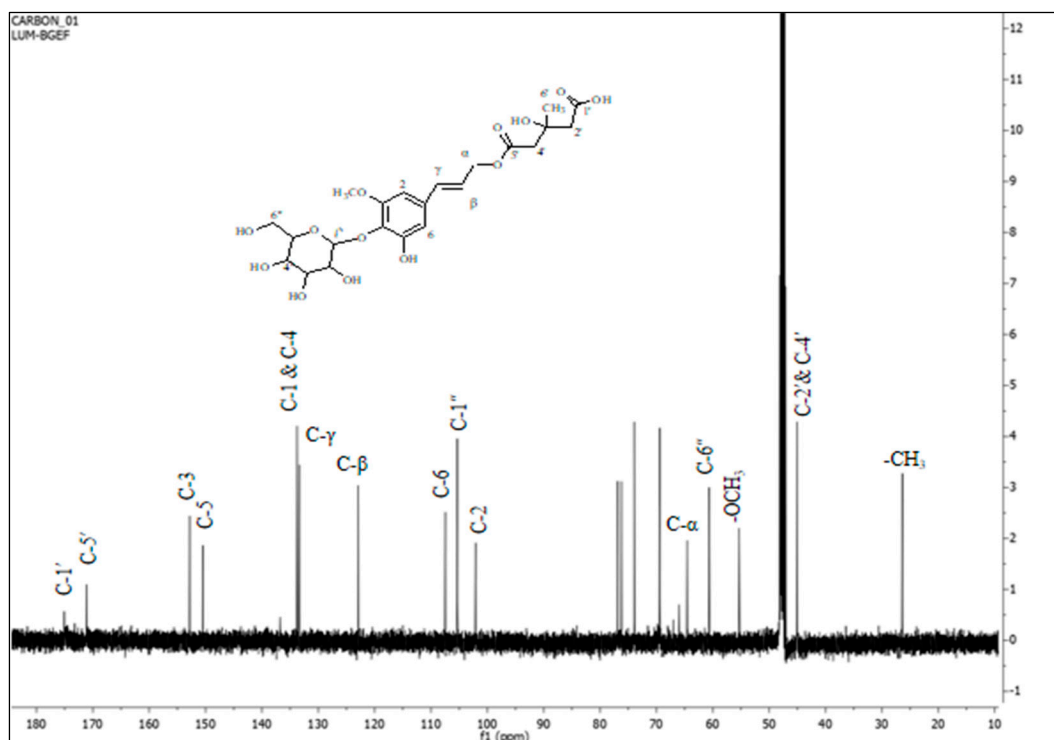


Figure S17. ¹³C-NMR spectrum of compound 4 (CD₃OD, 125 MHz)

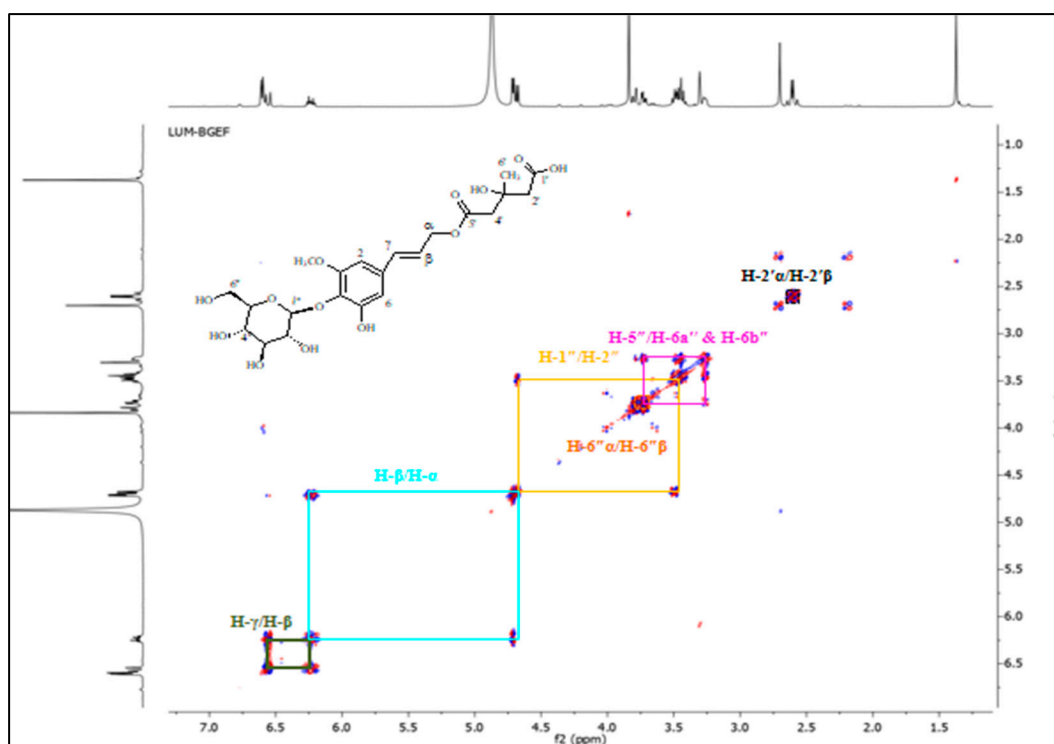


Figure S18. gDQCOSY spectrum of compound 4 (CD₃OD, 500 MHz)

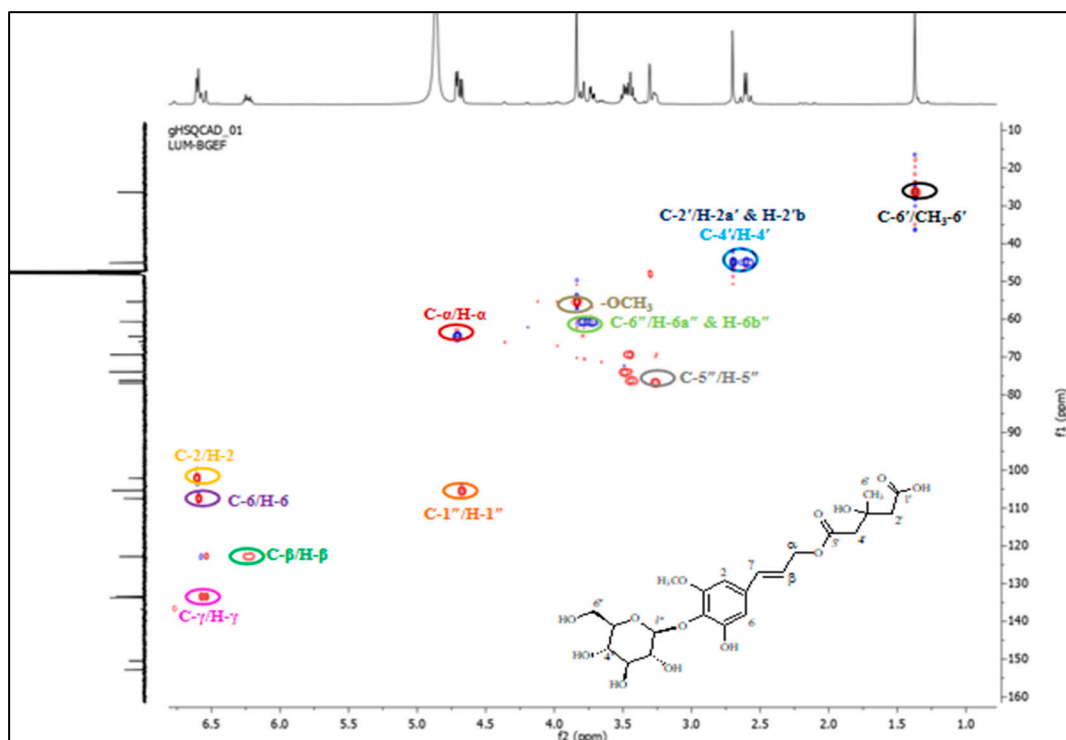


Figure S19. gHSQCAD spectrum of compound 4 (CD₃OD, 500 MHz)

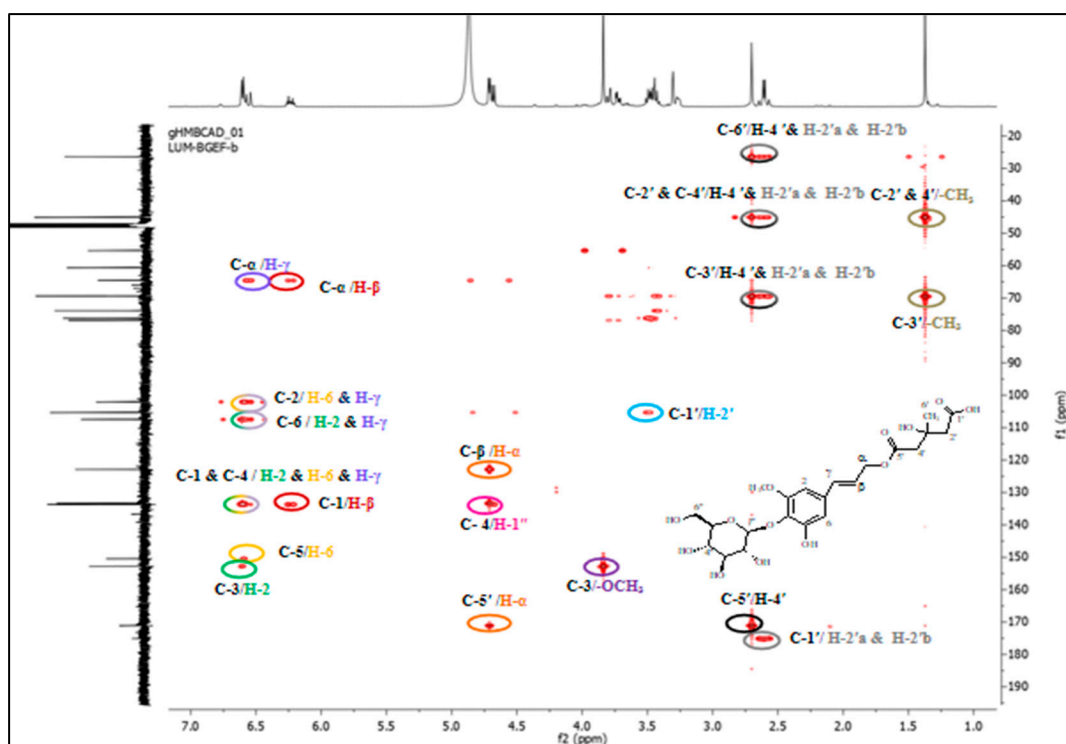


Figure S20. gHMBCAD spectrum of compound 4 (CD₃OD, 500 MHz)

Table S5. ^1H and ^{13}C NMR of compound **5** (CD_3OD , 500 MHz)

No	δ_{C}	Type C	δ_{H}	H	(Hz)
1	79.4	C	-	-	-
2	36.8	CH_2	2.14-2.26	2	o.s
3	72.3	CH	4.13	1	t (J=3.5)
4	70.1	CH	3.72	1	o.s
5	69.8	CH	5.26	1	ddd (J=8.5, 2.0)
6	37.6	CH_2	2.14-2.26	2	o.s
7	175.8	C	-	-	-
1'	126.4	C	-	-	-
2'	113.8	CH	7.03	1	s
3'	145.7	C	-	-	-
4'	147.2	C	-	-	-
5'	114.1	CH	6.78	1	d (J=8.0)
6'	122.5	CH	6.94	1	dd (J=8.0, 2.0)
7'	145.7	CH	7.52	1	d (J=15.5)
8'	115.1	CH	6.21	1	d (J=15.5)
9'	167.3	C	-	-	-
1''	51.8	CH_3	3.69	3	s

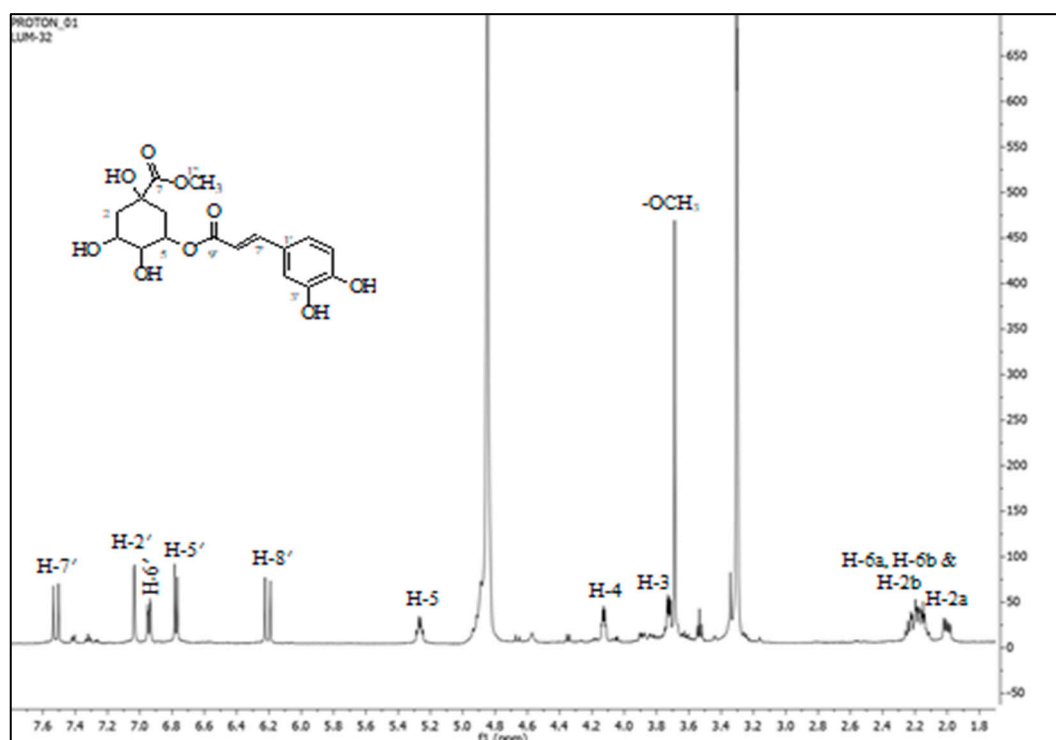


Figure S21. ¹H-NMR spectrum of compound 5 (CD₃OD, 500 MHz)

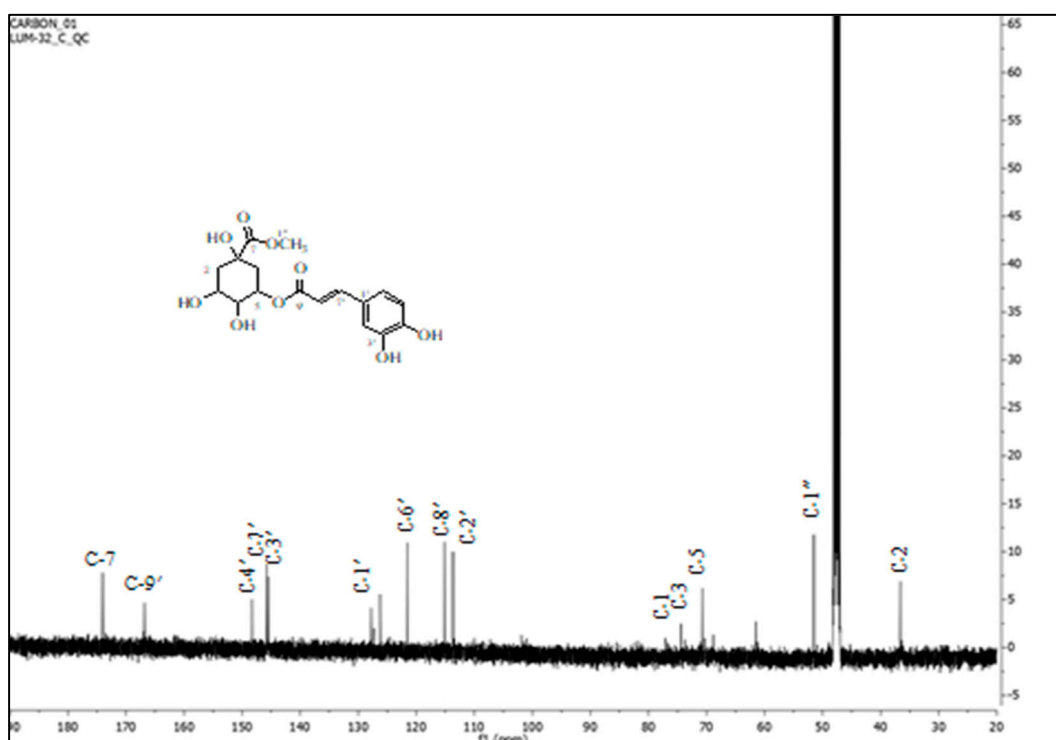


Figure S22. ¹³C-NMR spectrum of compound 5 (CD₃OD, 125 MHz)

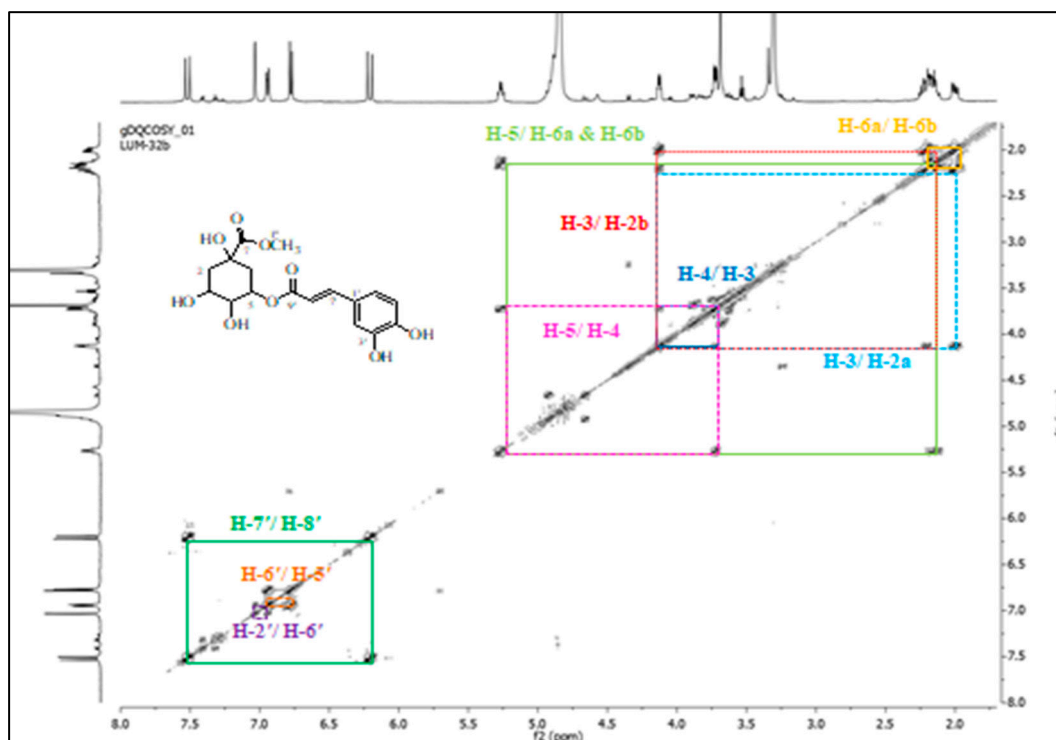


Figure S23. gDQCOSY spectrum of compound 5 (CD₃OD, 500 MHz)

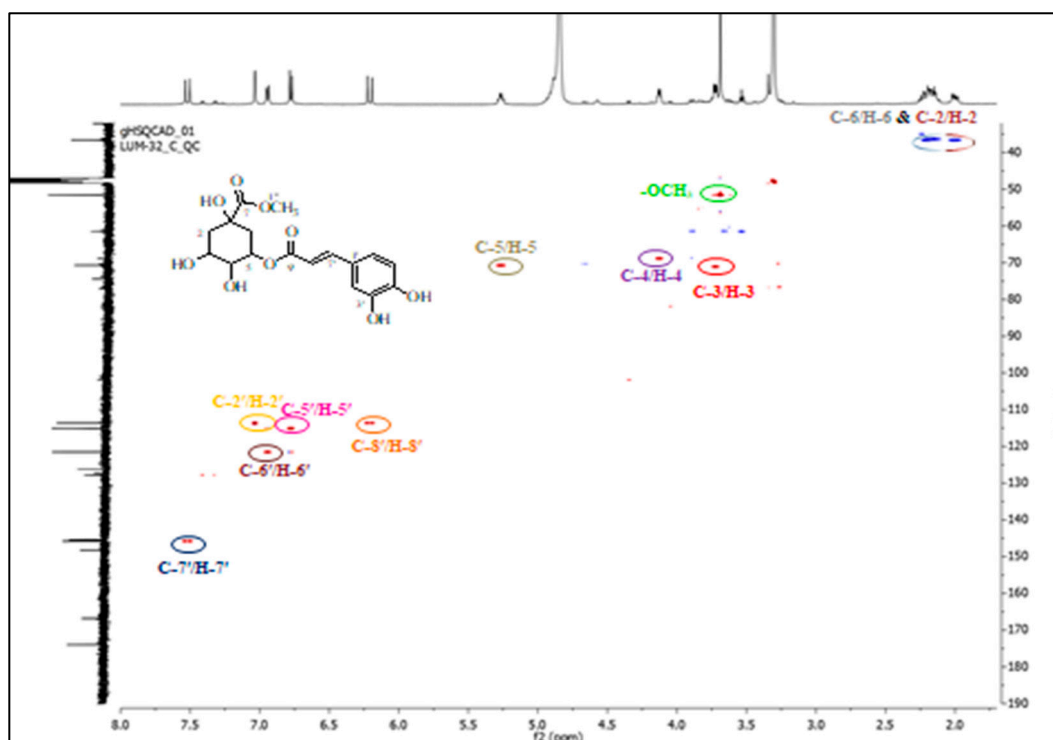


Figure S24. gHSQCAD spectrum of compound 5 (CD₃OD, 500 MHz)

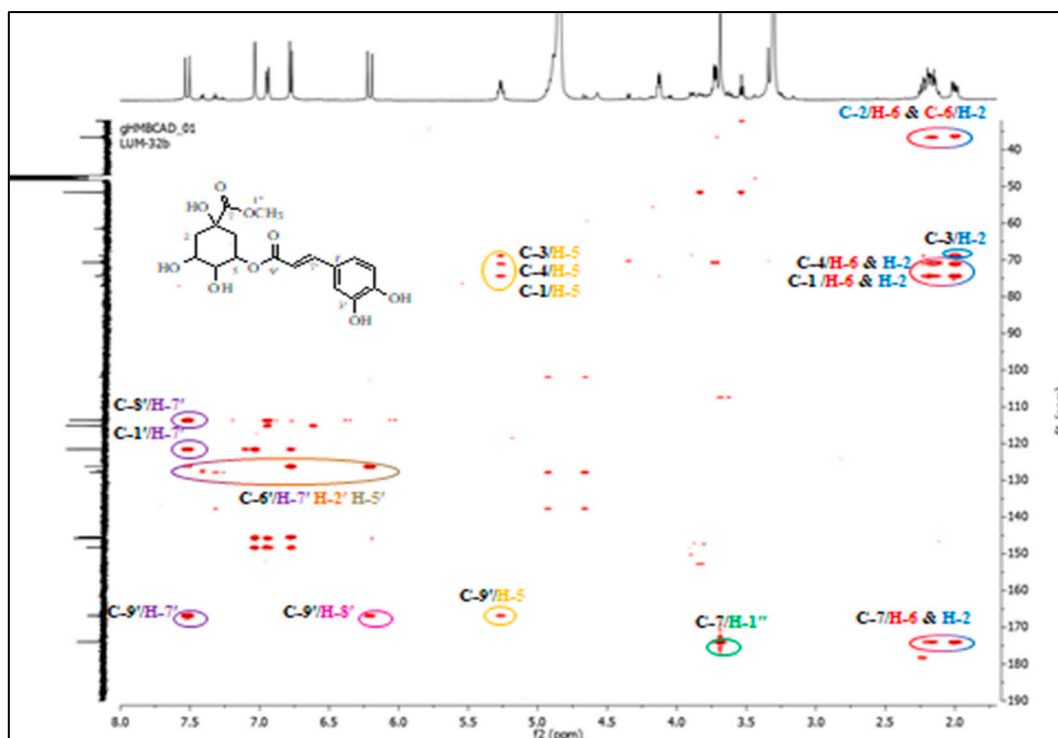


Figure S25. gHMBCAD spectrum of compound 5 (CD₃OD, 500 MHz)

Table S6. ¹H and ¹³C NMR of compound 6 (CD₃OD, 500 MHz)

Θέση	δ _C	Τύπος C	δ _H	Αριθμός H	Πολλαπλότητα J (Hz)
1	79.4	C	-	-	-
2	36.7	CH ₂	1.97-2.26	2	o.s
3	70.9	CH	4.13	1	t (J=3.5)
4	70.4	CH	3.72	1	o.s
5	68.5	CH	5.26	1	ddd (J=8.5, 2.0)
6	36.6	CH ₂	1.97-2.26	2	o.s
7	173.6	C	-	-	-
1'	126.2	C	-	-	-
2'	113.6	CH	7.03	1	s
3'	145.4	C	-	-	-
4'	148.3	C	-	-	-
5'	113.7	CH	6.78	1	d (J=8.0)
6'	121.5	CH	6.94	1	dd (J=8.0, 2.0)

7'	145.7	CH	7.52	1	d (J=15.5)
8'	115.1	CH	6.21	1	d (J=15.5)
9'	166.8	C	-	-	-
1''	64.9	CH ₂	4.11	2	m
2''	30.2	CH ₂	1.58	2	m
3''	18.7	CH ₂	1.35	2	m
4''	12.6	CH ₃	0.90	3	t (J=7.0)

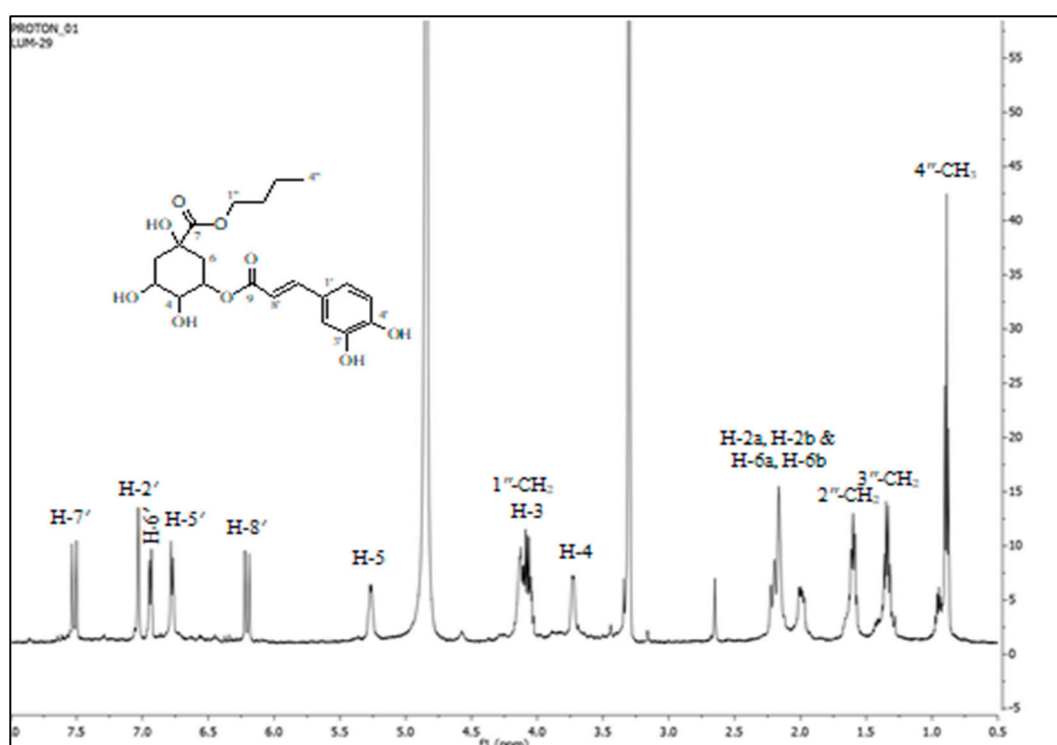


Figure S26. ¹H-NMR spectrum of compound 6 (CD₃OD, 500 MHz)

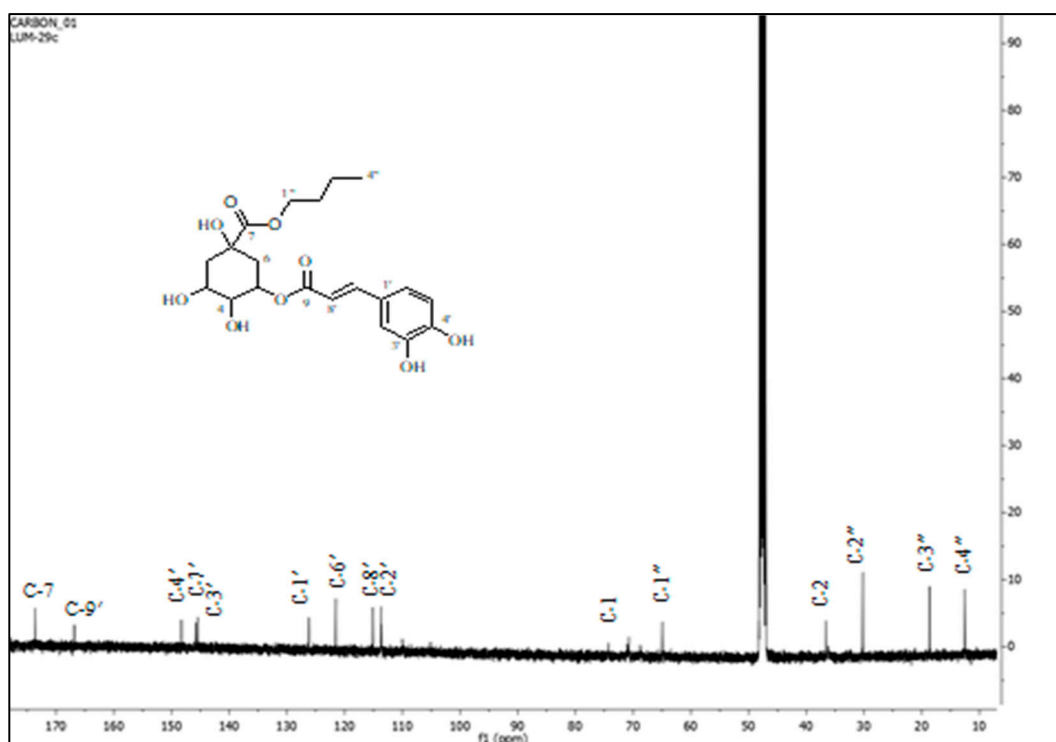


Figure S27. ^{13}C -NMR spectrum of compound **6** (CD_3OD , 125 MHz)

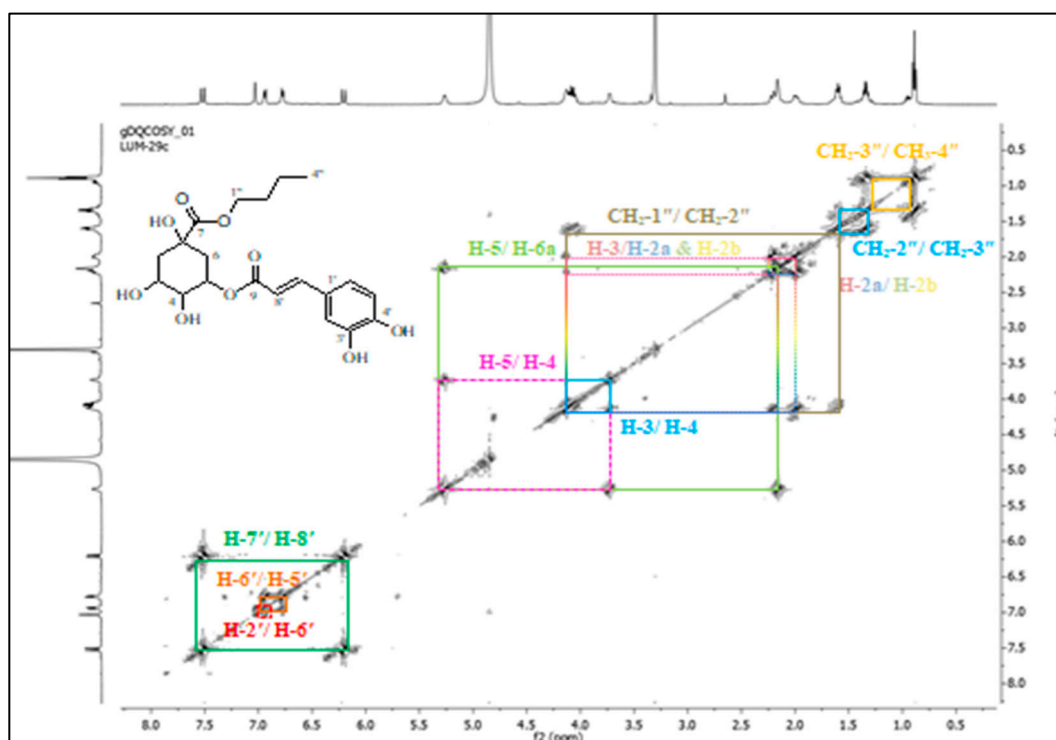


Figure S28. gDQCOSY spectrum of compound **6** (CD_3OD , 500 MHz)

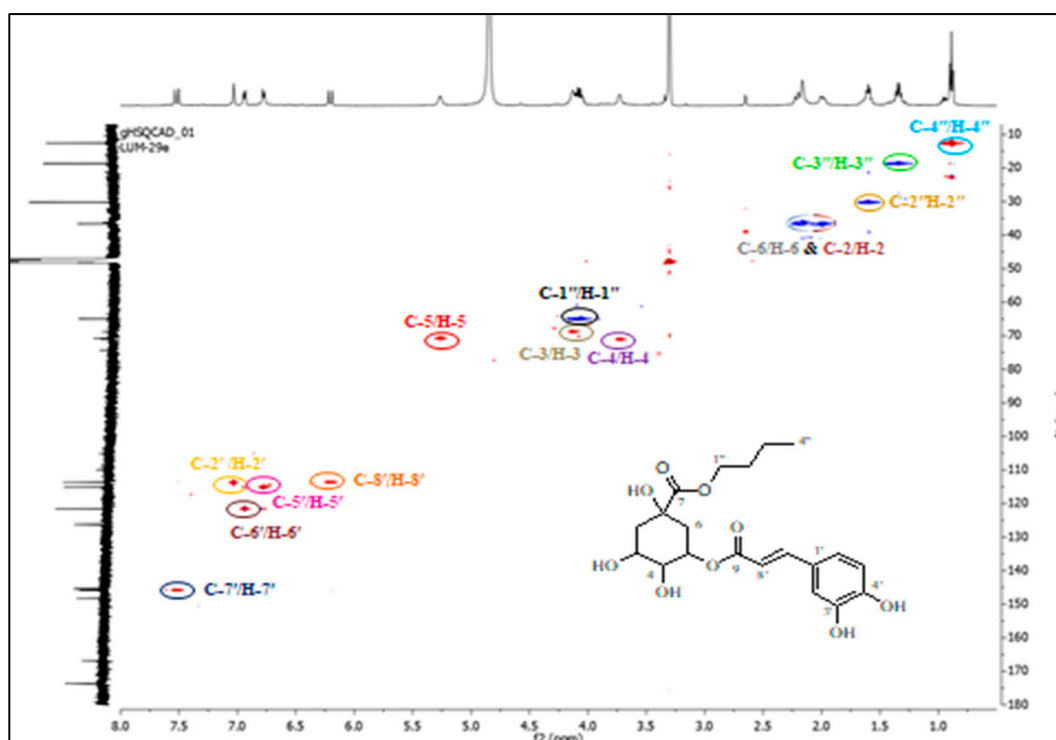


Figure S29. gHSQCAD spectrum of compound 6 (CD₃OD, 500 MHz)

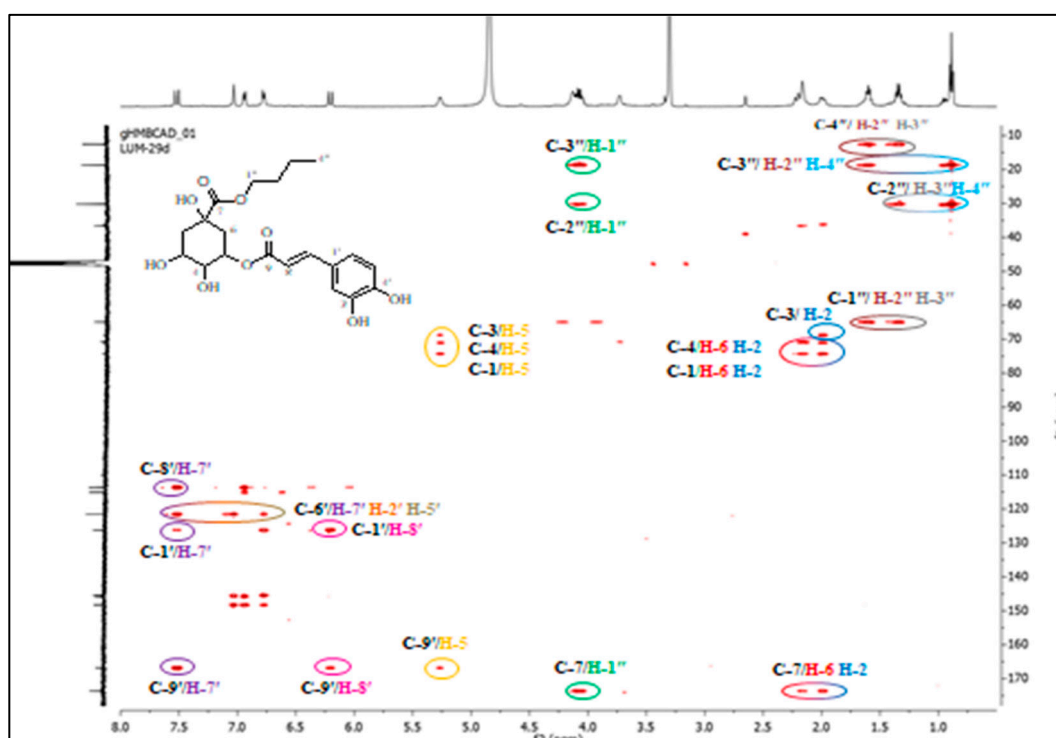


Figure S30. gHMBCAD spectrum of compound 6 (CD₃OD, 500 MHz)

Table S7. ¹H and ¹³C NMR of compound 7 (CD₃OD, 500 MHz)

No	δ_C	Type C	δ_H	H	J (Hz)
2	158.0	C	-	-	-
3	134.1	C	-	-	-
4	167.7	C=O	-	-	-
5	160.1	C	-	-	-
6	98.7	CH	6.20	1	s
7	164.8	C	-	-	-
8	93.6	CH	6.39	1	s
9	157.1	C	-	-	-
10	104.2	C	-	-	-
1'	121.3	C	-	-	-
2'	131.0	CH	8.05	1	d (J=8.0)
3'	114.7	CH	6.89	1	d (J=8.0)
4'	158.0	C	-	-	-
5'	114.7	CH	6.89	1	d (J=8.0)
6'	131.0	CH	8.05	1	d (J=8.0)
1''	103.2	CH	5.09	1	d (J=7.0)
2''	74.3	CH	3.41	1	o.s
3''	76.7	CH	3.38-3.70	1	o.s
4''	70.0	CH	3.38-3.70	1	o.s
5''	75.7	CH	3.38-3.70	1	o.s
6''a	67.2	CH ₂	3.80	1	o.s
6''b			3.80	1	o.s
1'''	101.0	CH	4.51	1	s
2'''	70.9	CH	3.38-3.70	1	o.s
3'''	70.6	CH	3.38-3.70	1	o.s
4'''	72.5	CH	3.38-3.70	1	o.s
5'''	68.3	CH	3.46	1	o.s
CH ₃ -6'''	16.5	CH	1.12	3	d (J=6.0)

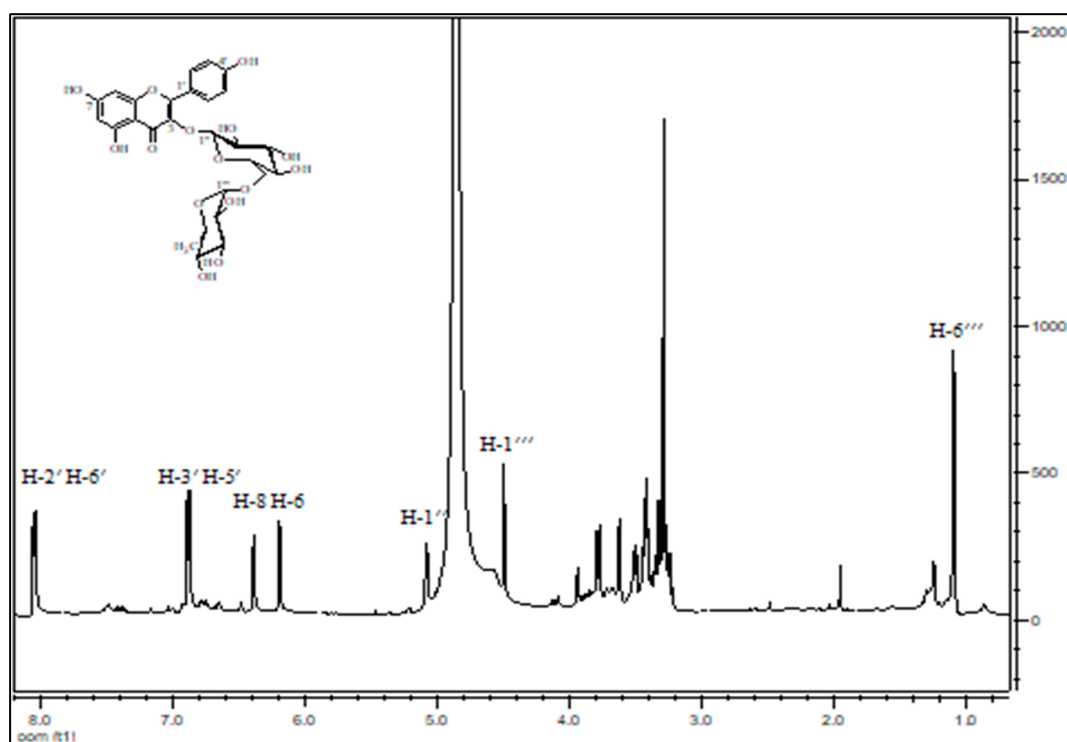


Figure S31. ^1H -NMR spectrum of compound 7 (CD_3OD , 500 MHz)

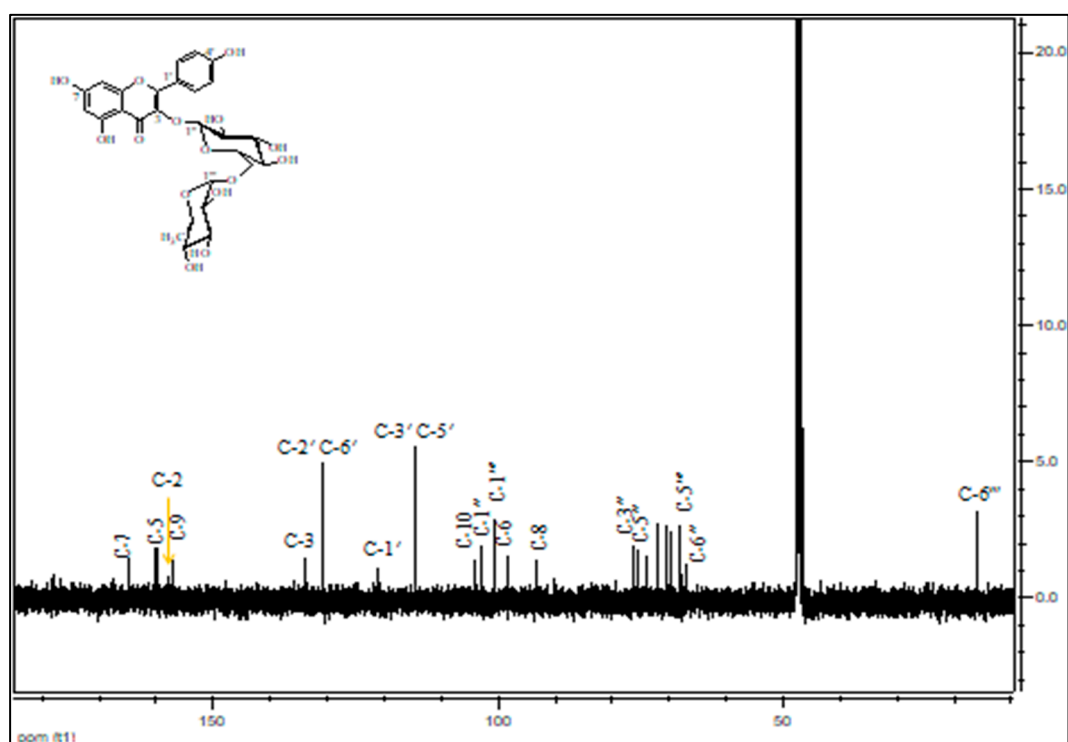


Figure S32. ^{13}C -NMR spectrum of compound 7 (CD_3OD , 125 MHz)

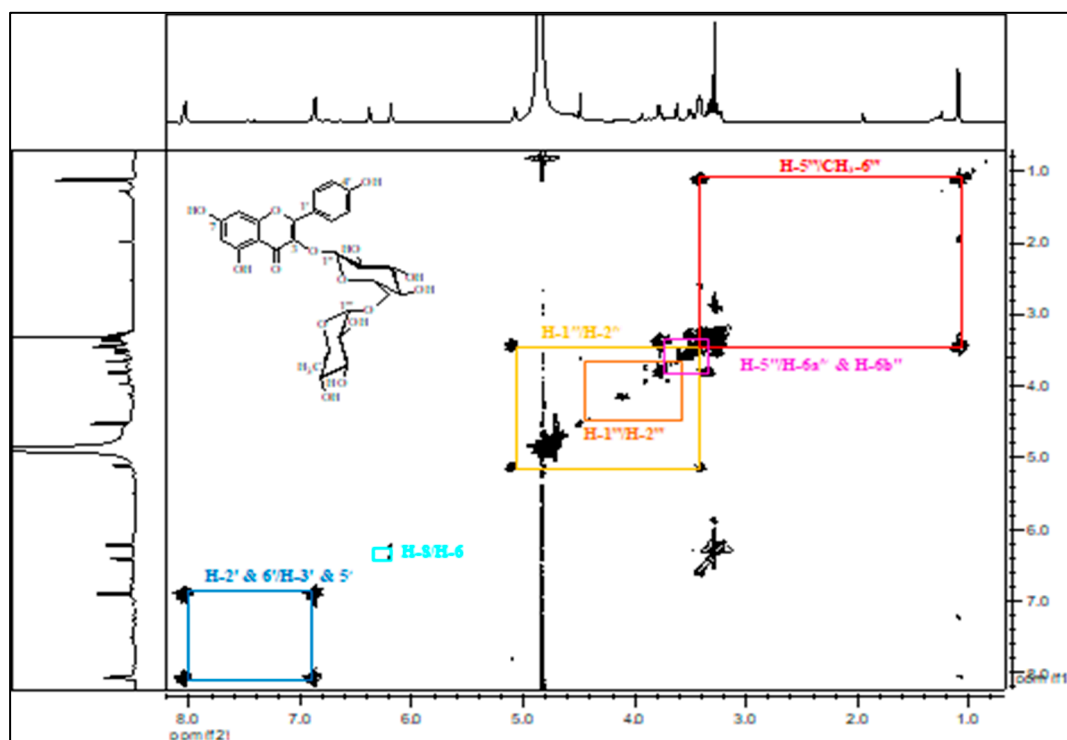


Figure S33. gDQCOSY spectrum of compound 7 (CD₃OD, 500 MHz)

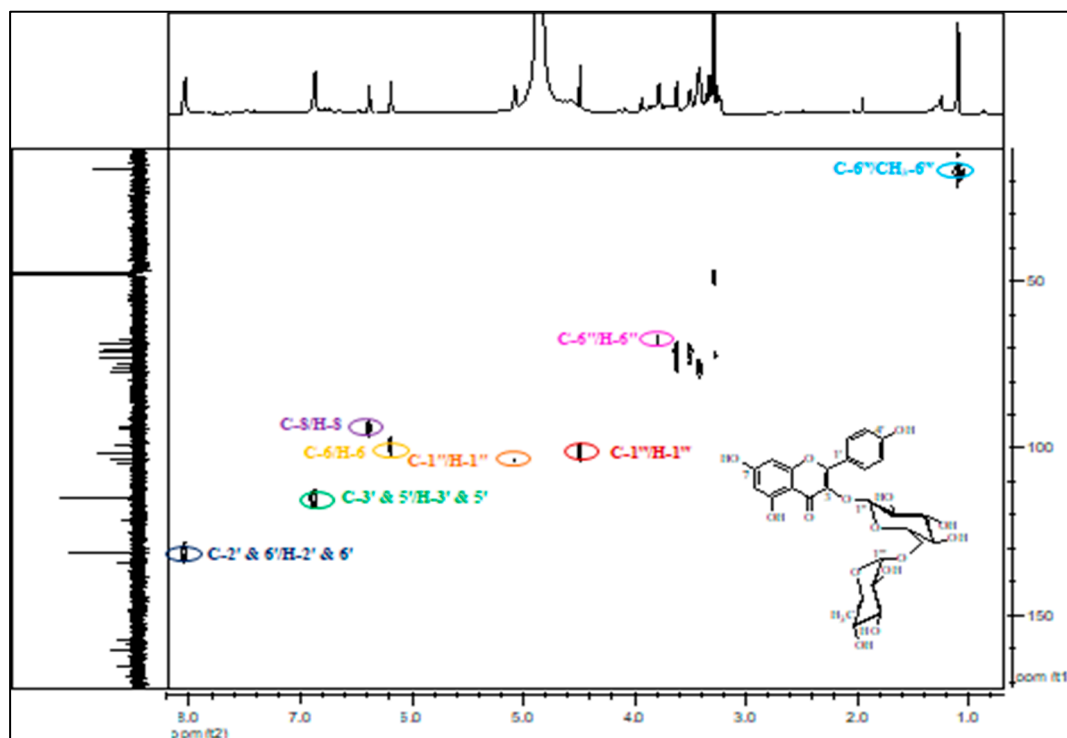


Figure S34. gHSQCAD spectrum of compound 7 (CD₃OD, 500 MHz)

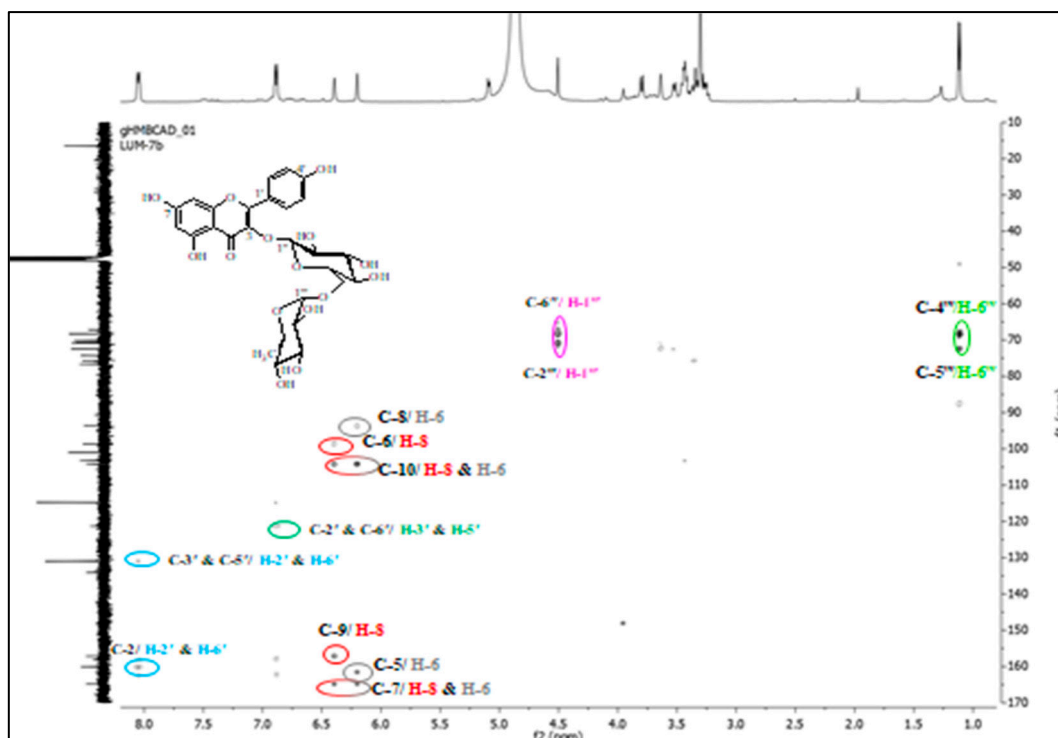


Figure S35. gHMBCAD spectrum of compound 7 (CD₃OD, 500 MHz)

Table S8. ¹H and ¹³C NMR of compound 8 (CD₃OD, 500 MHz)

No	δ _C	Type C	δ _H	H	J (Hz)
2	158.0	C	-	-	-
3	134.2	C	-	-	-
4	177.9	C=O	-	-	-
5	161.4	C	-	-	-
6	98.6	CH	6.21	1	s
7	164.8	C	-	-	-
8	93.5	CH	6.40	1	s
9	157.1	C	-	-	-
10	104.2	C	-	-	-
1'	121.7	C	-	-	-
2'	116.3	CH	7.66	1	s
3'	144.4	C	-	-	-
4'	148.4	C	-	-	-
5'	114.6	CH	6.87	1	d (J=7.5)

6'	122.2	CH	7.63	1	dd (J=7.5)
1''	103.4	CH	5.10	1	d (J=7.0)
2''	74.2	CH	3.47	1	o.s
3''	76.7	CH	3.44	1	o.s
4''	72.5	CH	3.25-3.80	1	o.s
5''	75.8	CH	3.25-3.80	1	o.s
6''a	67.2	CH ₂	3.76	1	o.s
6''b			3.38	1	o.s
1'''	101.0	CH	4.51	1	s
2'''	70.0	CH	3.64	1	o.s
3'''	70.7	CH	3.55	1	o.s
4'''	70.8	CH	3.25-3.80	1	o.s
5'''	68.5	CH	3.43	1	o.s
CH ₃ -6'''	16.5	CH	1.11	3	d (J=6.0)

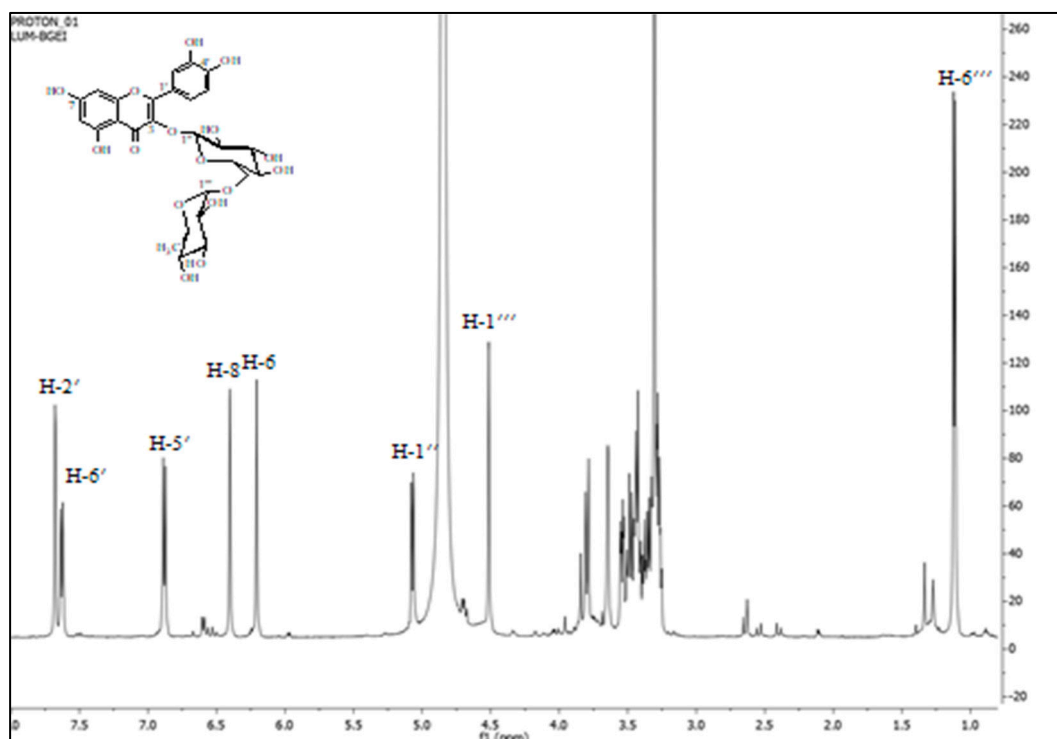


Figure S36. ¹H-NMR spectrum of compound 8 (CD₃OD, 500 MHz)

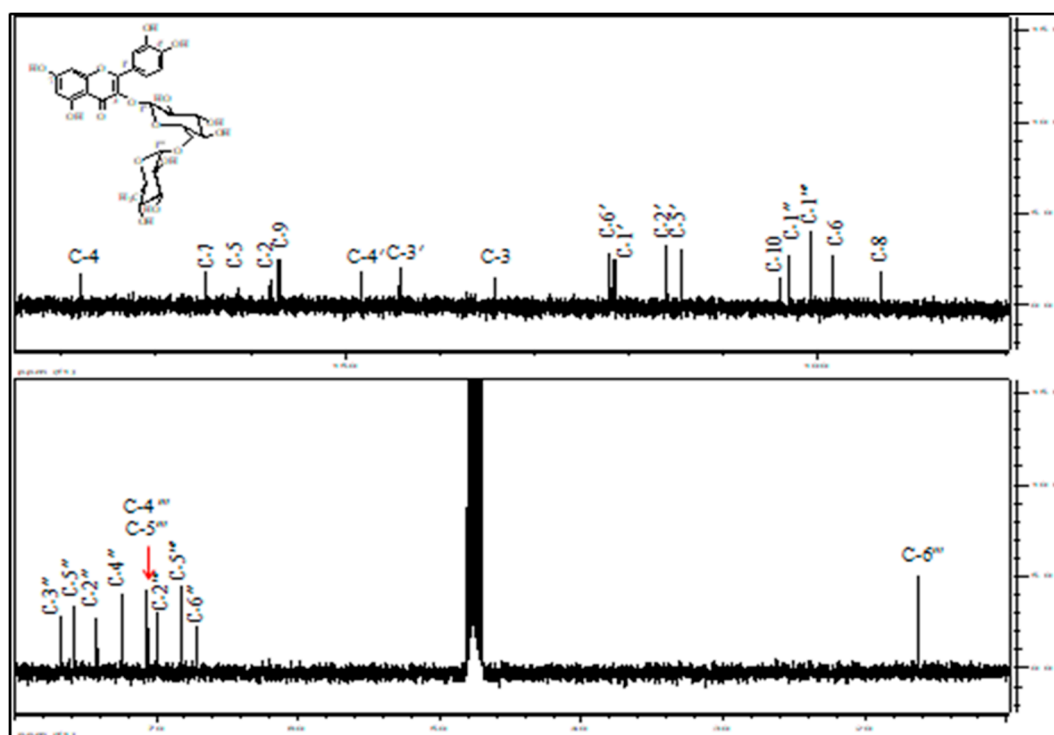


Figure S37. ^{13}C -NMR spectrum of compound **8** (CD_3OD , 125 MHz)

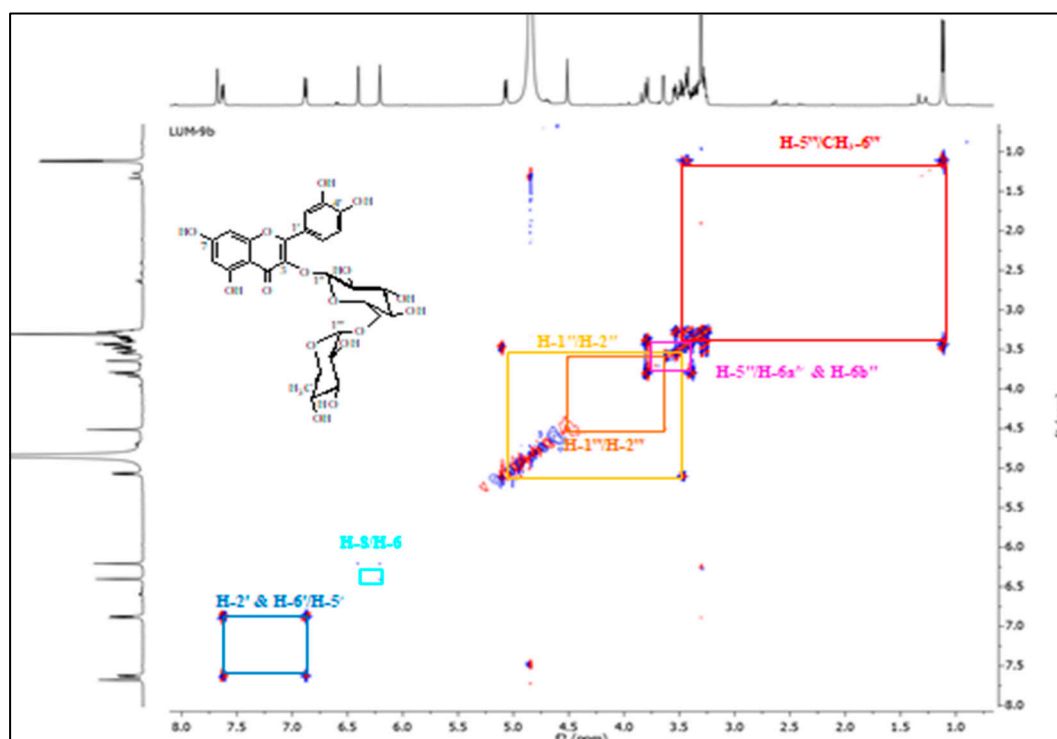


Figure S38. gDQCOSY spectrum of compound **8** (CD_3OD , 500 MHz)

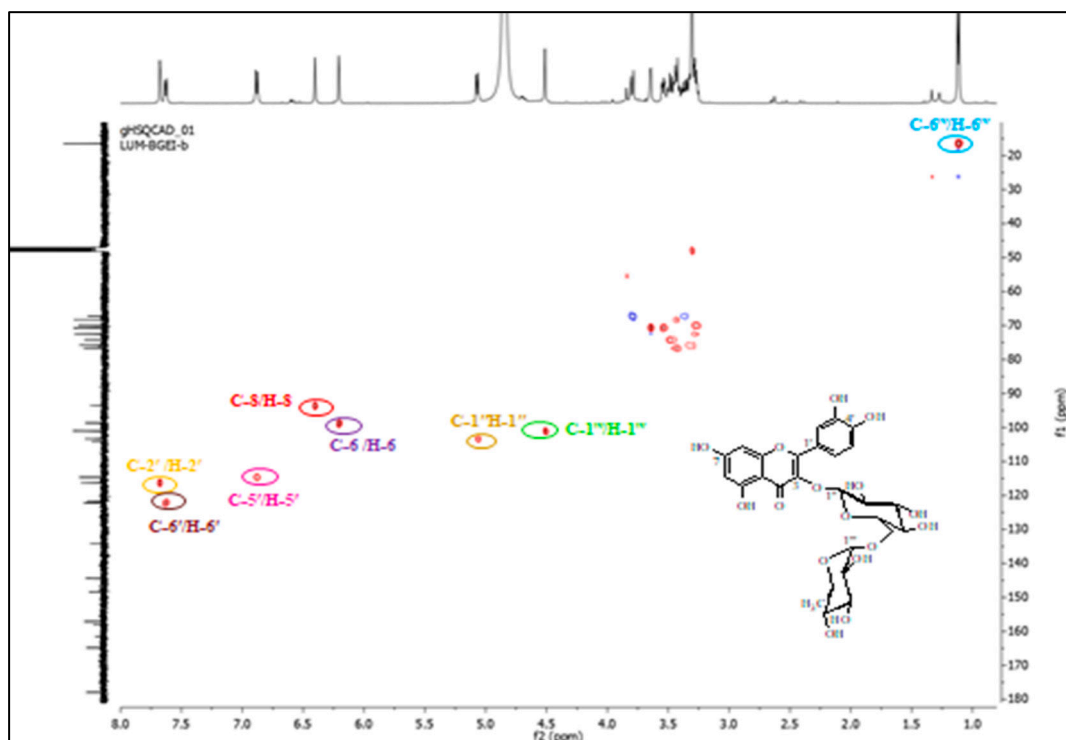


Figure S39. gHSQCAD spectrum of compound **8** (CD₃OD, 500 MHz)

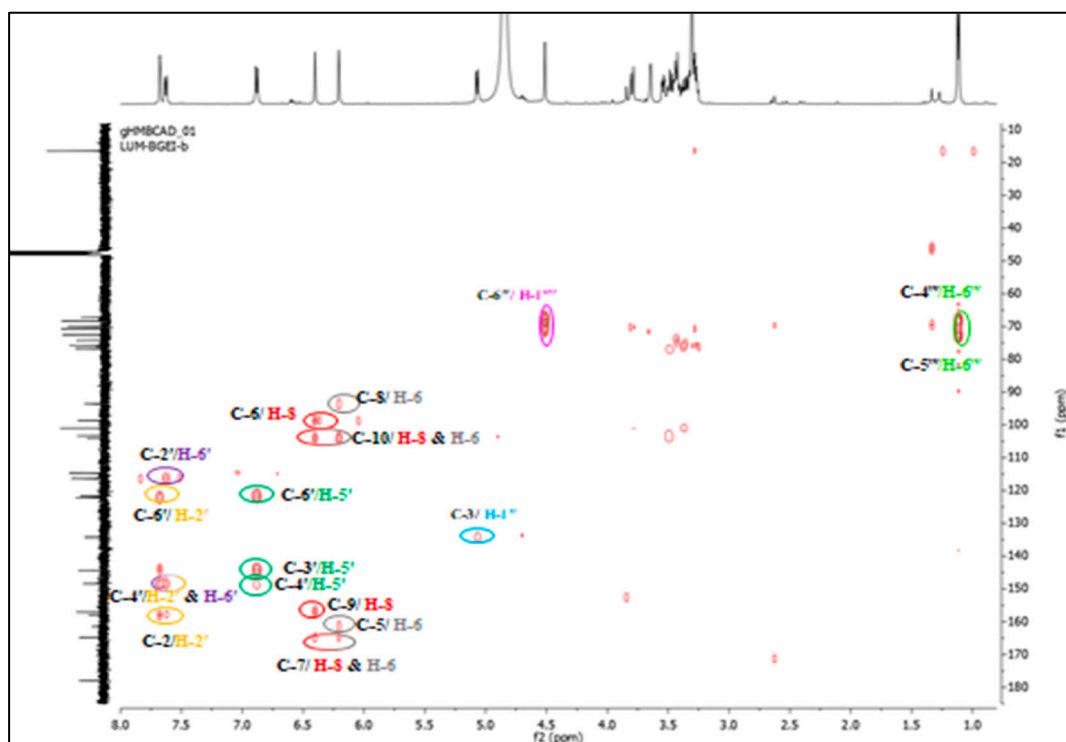


Figure S40. gHMBCAD spectrum of compound **8** (CD₃OD, 500 MHz)

Table S9. ^1H and ^{13}C NMR of compound **9** (CD_3OD , 500 MHz)

No	δ_{C}	Type C	δ_{H}	H	J (Hz)
1	39.3	C	-	-	-
2a	43.1	CH_2	1.74	1	o.s
2b			1.59	1	o.s
3	71.9	O-CH	4.21	1	o.s
4a	40.9	CH_2	1.94	1	o.s
4b			1.75	1	o.s
5	75.7	C-O	-	-	-
6	73.7	C-O	-	-	-
7	129.5	$\text{CH}=\text{}$	6.06	1	d (J=16.0)
8	134.7	$\text{CH}=\text{}$	5.78	1	dd (J=16.0, 6.5)
9	68.1	O-CH	4.35	1	m
10	22.7	CH_3	1.27	3	d (J=6.5)
11	26.1	CH_3	0.88	3	s
12	24.8	CH_3	1.22	3	s
13	25.7	CH_3	1.11	3	s
1'	100.8	CH	4.40	1	d (J=7.5)
2'	76.3	CH	3.25	1	s
3'	76.7	CH	3.35	1	o.s
4'	77.8	CH	3.32	1	o.s
5'	70.2	CH	3.29	1	o.s
6''a	61.4	CH_2	3.85	1	o.s
6''b			3.67	1	o.s

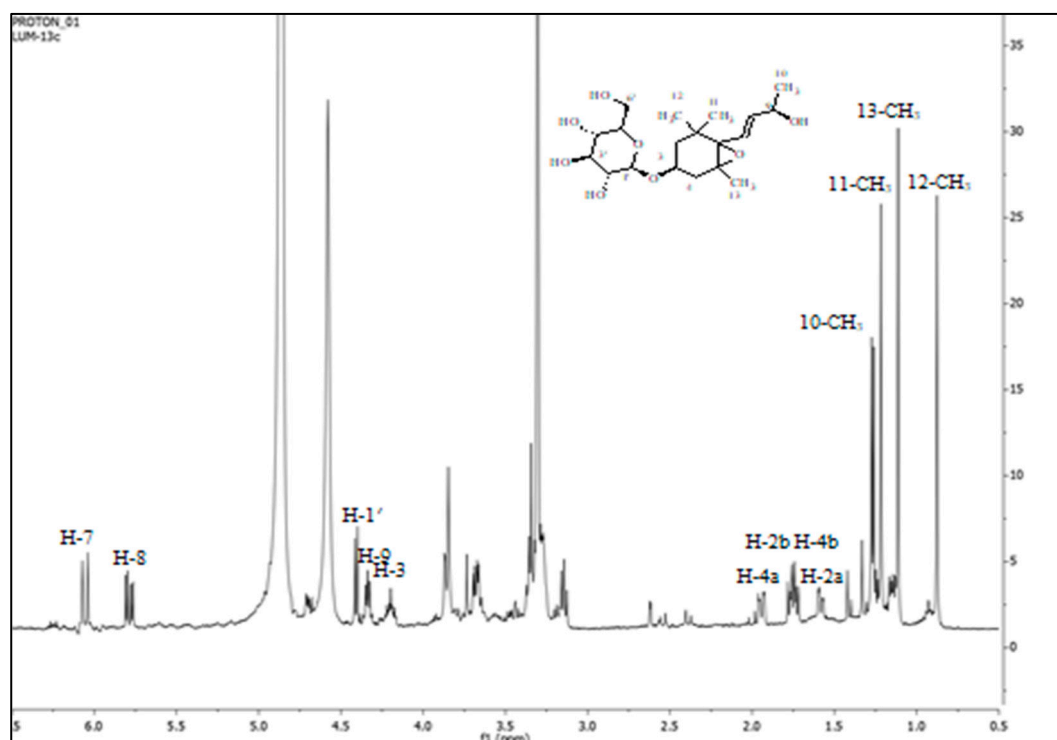


Figure S41. ¹H-NMR spectrum of compound 9 (CD₃OD, 500 MHz)

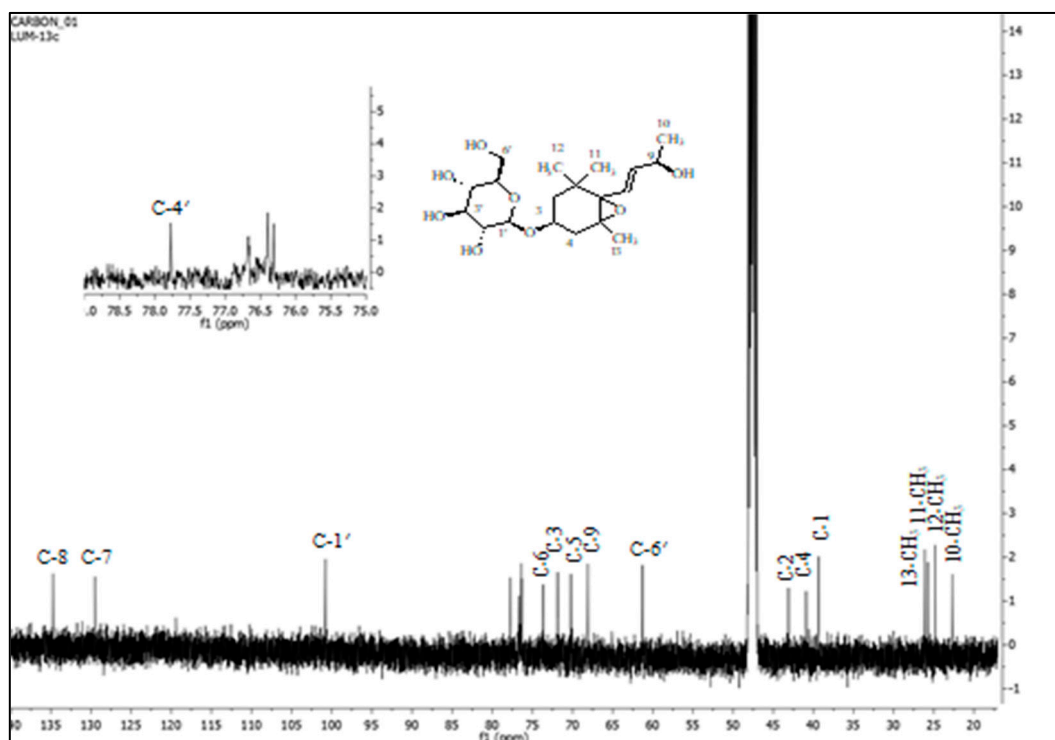


Figure S42. ¹³C-NMR spectrum of compound 9 (CD₃OD, 125 MHz)

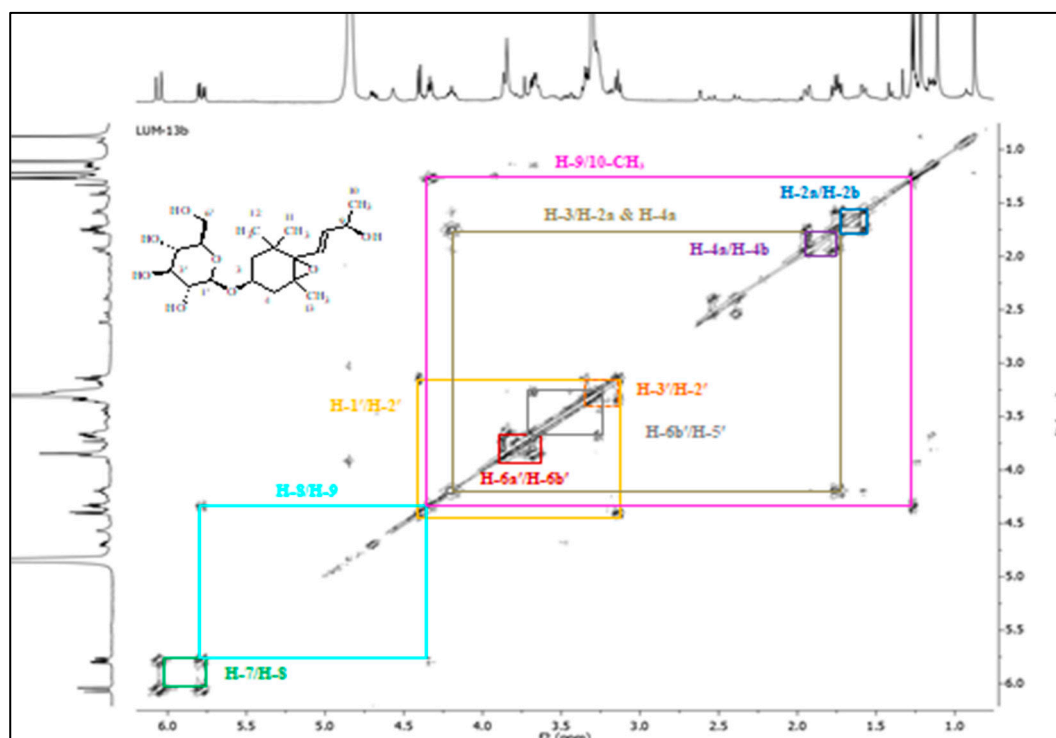


Figure S43. gDQCOSY spectrum of compound 9 (CD₃OD, 500 MHz)

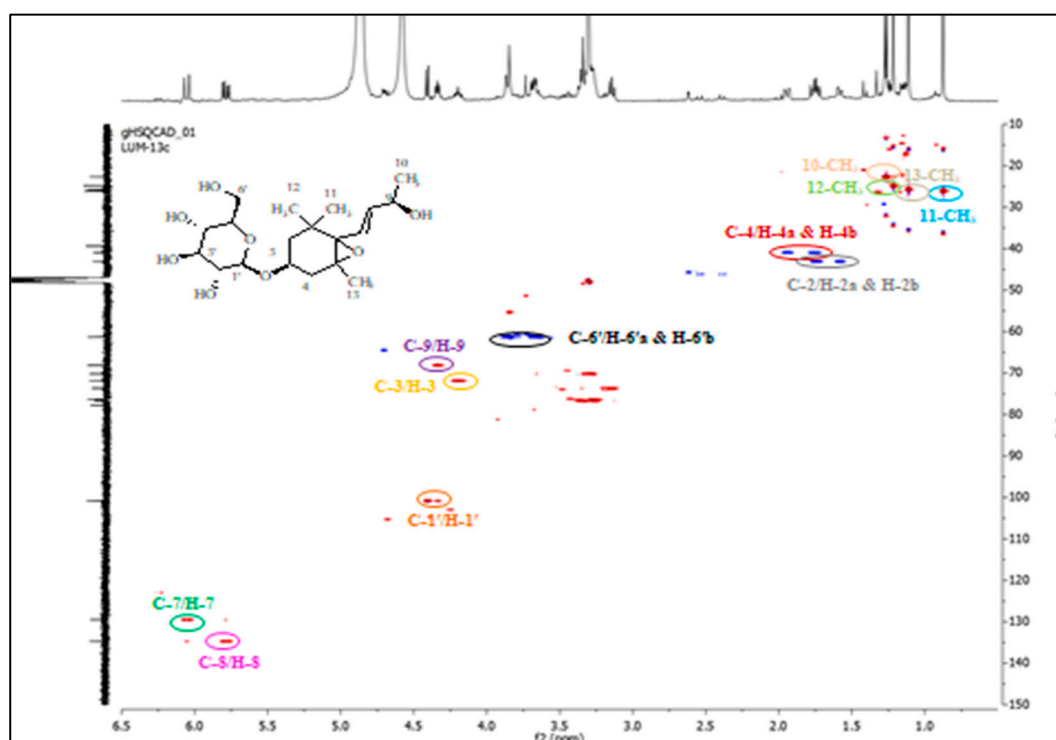


Figure S44. gHSQCAD spectrum of compound 9 (CD₃OD, 500 MHz)

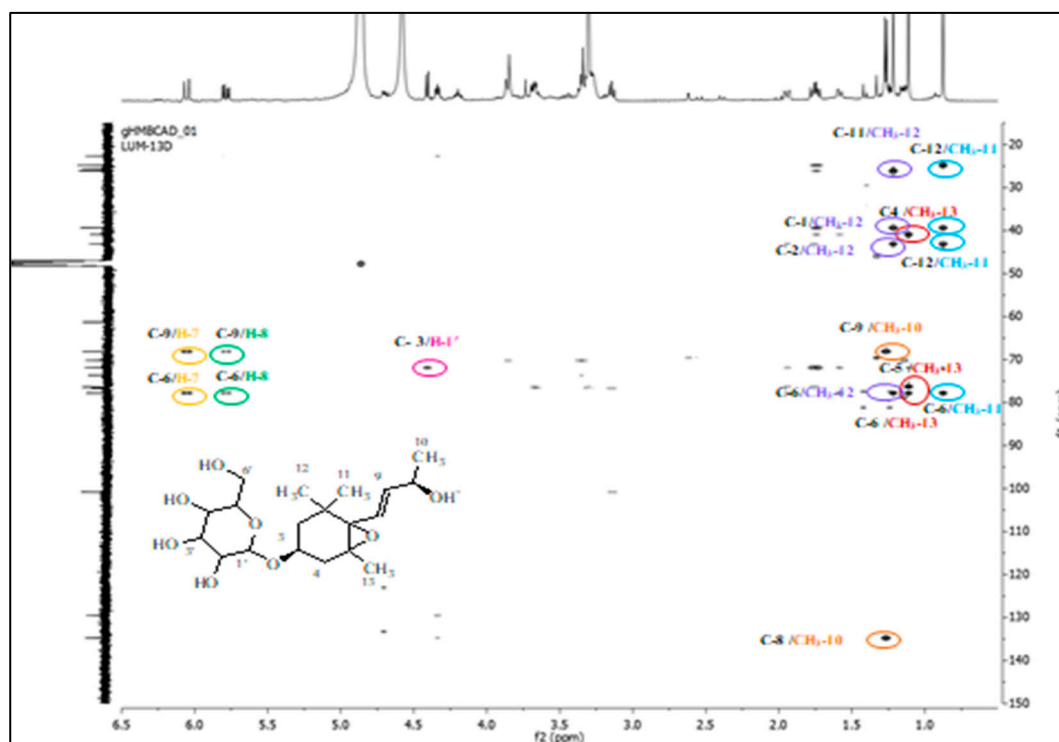


Figure S45. gHMBCAD spectrum of compound 9 (CD₃OD, 500 MHz)