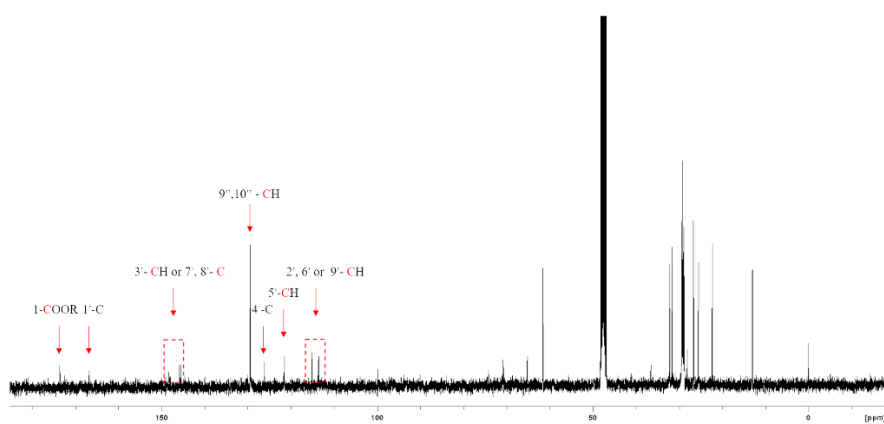
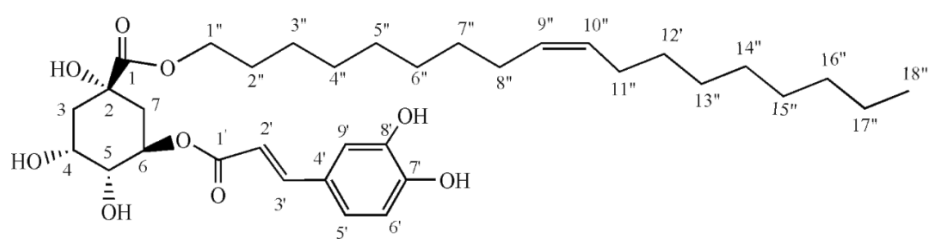


**Figure S1.** The  $^1\text{H}$  NMR spectra of CGOA.



**Figure S2.** The  $^{13}\text{C}$  NMR spectra of CGOA.



**Figure S3.** The chemical structure of CGOA.

**Table S1.** NMR characteristics of the  $^1\text{H}$  and  $^{13}\text{C}$  of CGA and CGOA.

No.	CGA		CGOA	
	$^1\text{H}$	$^{13}\text{C}$	$^1\text{H}$	$^{13}\text{C}$
1	—	<u>175.62</u>	—	<u>173.63</u>
2	—	<u>72.04</u>	—	<u>99.99</u>
3	2.23	<u>37.35</u>	2.21	<u>36.62</u>
4	4.19	<u>69.87</u>	4.12	<u>65.29</u>
5	3.75	<u>74.72</u>	3.76	<u>74.24</u>
6	5.35	<u>70.57</u>	5.36	<u>70.82</u>
7	2.07	<u>36.81</u>	2.04	<u>32.28</u>
1'	—	167.26	—	166.80
2'	6.28	113.84	6.22	113.74
3'	7.58	145.40	7.54	145.50
4'	—	126.39	—	126.20
5'	6.80	121.59	6.80	121.58
6'	6.97	115.07	6.96	115.12
7'	—	145.69	—	145.86
8'	—	148.18	—	148.34
9'	7.07	113.79	7.07	113.59
1"	—	—	3.56	61.61
2"	—	—	1.56	31.67
3"	—	—	1.33	25.54
4"	—	—	1.33	29.06
5"	—	—	1.33	29.37
6"	—	—	1.33	29.22
7"	—	—	1.33	28.92
8"	—	—	2.04	26.72
9"	—	—	5.36	129.44
10"	—	—	5.36	129.45
11"	—	—	2.04	26.74
12"	—	—	1.33	28.94
13"	—	—	1.33	29.42
14"	—	—	1.33	29.45
15"	—	—	1.33	29.25
16"	—	—	1.33	29.46
17"	—	—	1.33	22.35
18"	—	—	0.92	13.07

- Indicates that this C atom is not connected to -H, or not exist.

The difference in shifts of carbonyl atoms was underlined.