

Supplementary Information

Chemistry and Bioactivity of *Haplopappus remyanus* (“bailahuen”), a Chilean Medicinal Plant

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¹H NMR spectra of compounds (Table S1 and Figures S1-S14)

Table S1. ¹H NMR of flavonoids **8-13** at 400 MHz in CDCl₃ (J,Hz)

	δ_{H} / ppm										
	H-2	H-3	H-6	H-8	H-2' H-6'	H-3' H-5'	7-OMe	3-OMe	4'-OMe	OH	OAc
8			6.36 d (2.3)	6.45 d (2.04)	8.09 d (9.1)	7.03 d (9.1)	3.86	3.91	3.88		
9			6.38 s	6.49 s	8.18 d (8.7)	7.04 d (9.3)	3.90		3.89	6.66 brs	
10			6.31 d (1.8)	6.41 d (2.2)	8.06 d (8.8)	7.03 d (8.8)	3.89		3.84	12.66	2.17 s
11			6.31 d (2.0)	6.39 d (2.0)	7.71d (2.0) 7.56 dd, (8.5, 2.0)	6.85 d (8.5)	3.79			12.10, 8.0, 8.45 brs	2.49 s
12	5.37 dd (13; 2.7)	2.79 dd (17.2; 12.8) 3.11 dd (17.2; 2.9)	6.05 d (2.3)	6.07 d (2.5)	7.39 d (8.7)	6.96 d (8.7)	3.81		3.84	12.03	
13	5.07 d (11.9)	4.59 d (11.9)	6.08 d (1.8)	6.15 d (2.3)	7.51d (8.6)	7.02 d (8.6)	3.87		3.84	3.48, 11.22	

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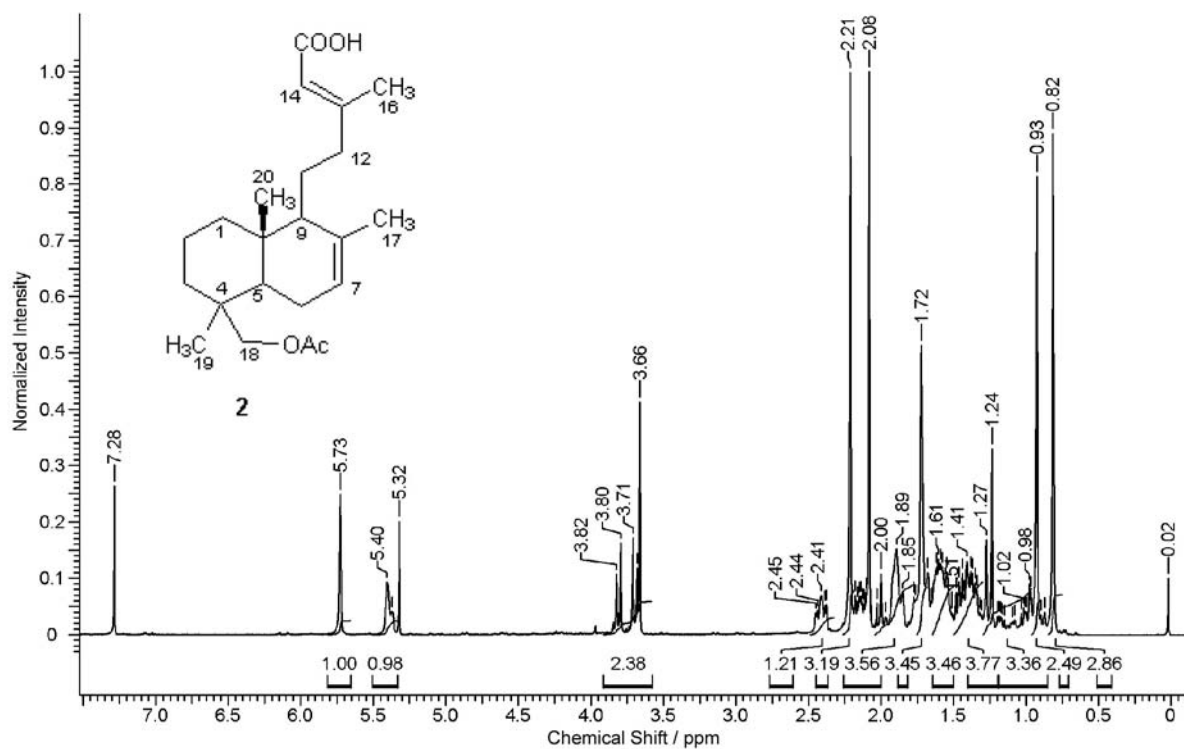


Figure S1. ^1H NMR spectrum of compound **2**, in CDCl_3 .

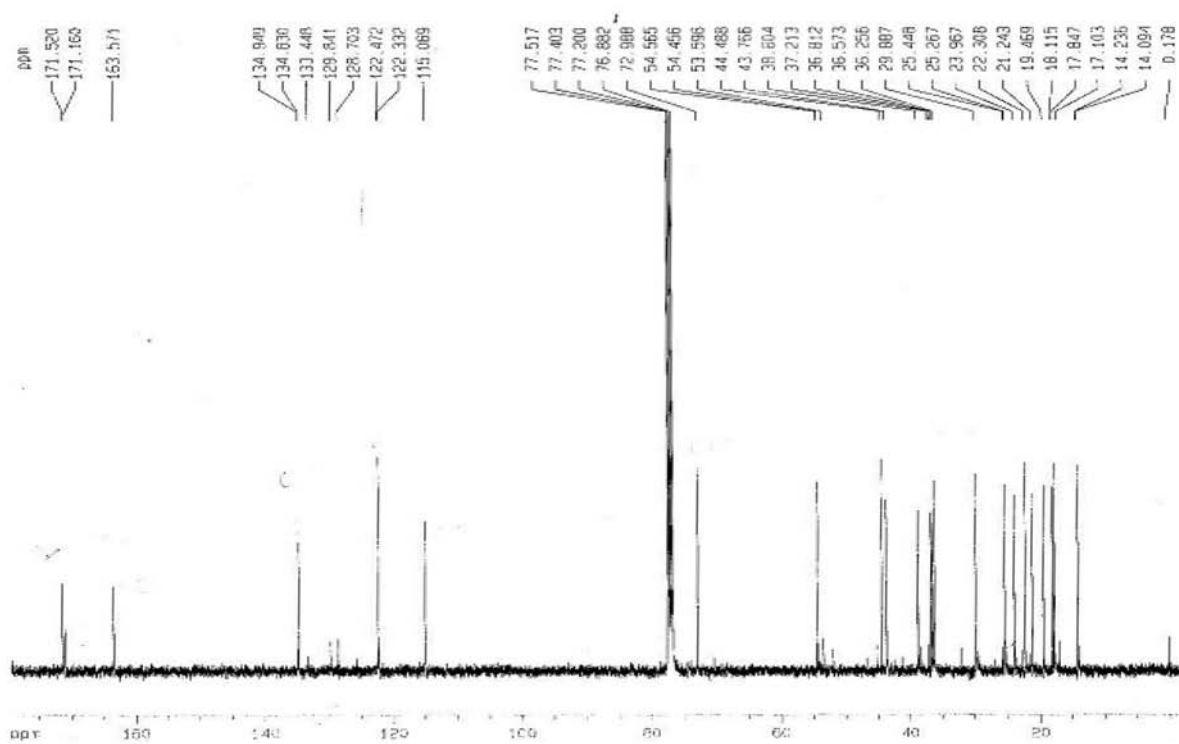


Figure S2. ^{13}C NMR spectrum of compound **2**, in CDCl_3 .

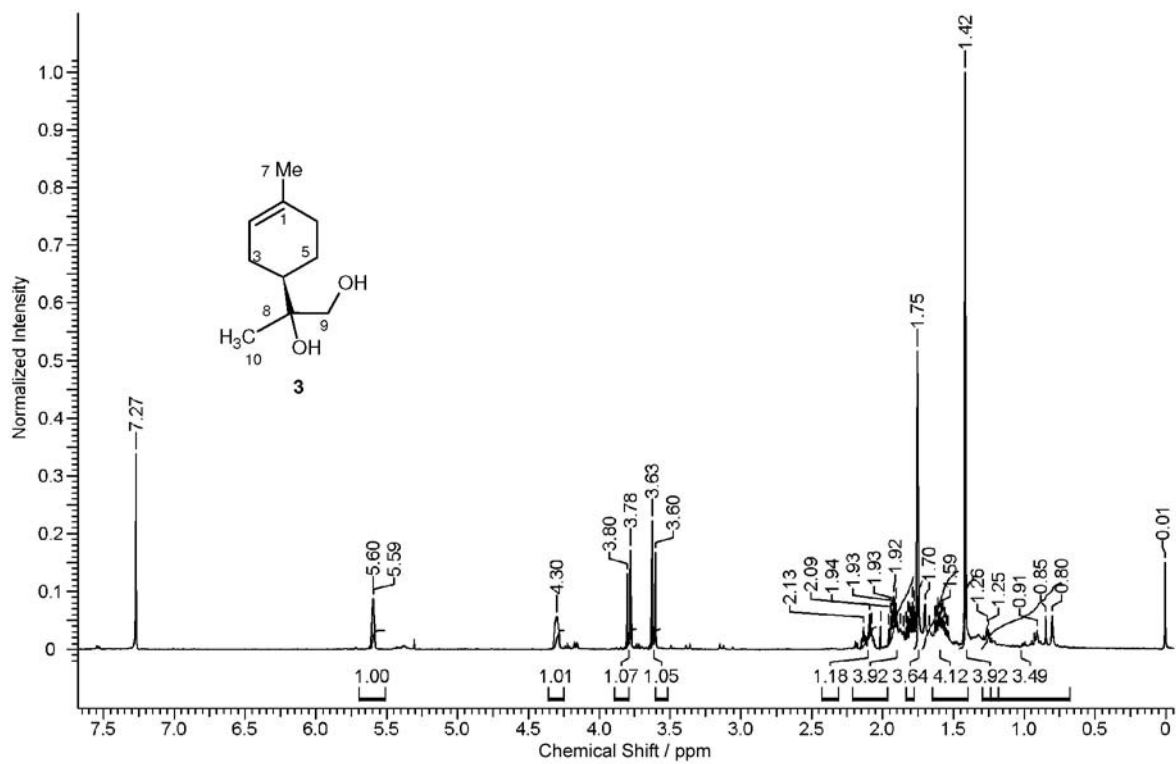


Figure S3. ^1H NMR spectrum of compound **3**, in CDCl_3 .

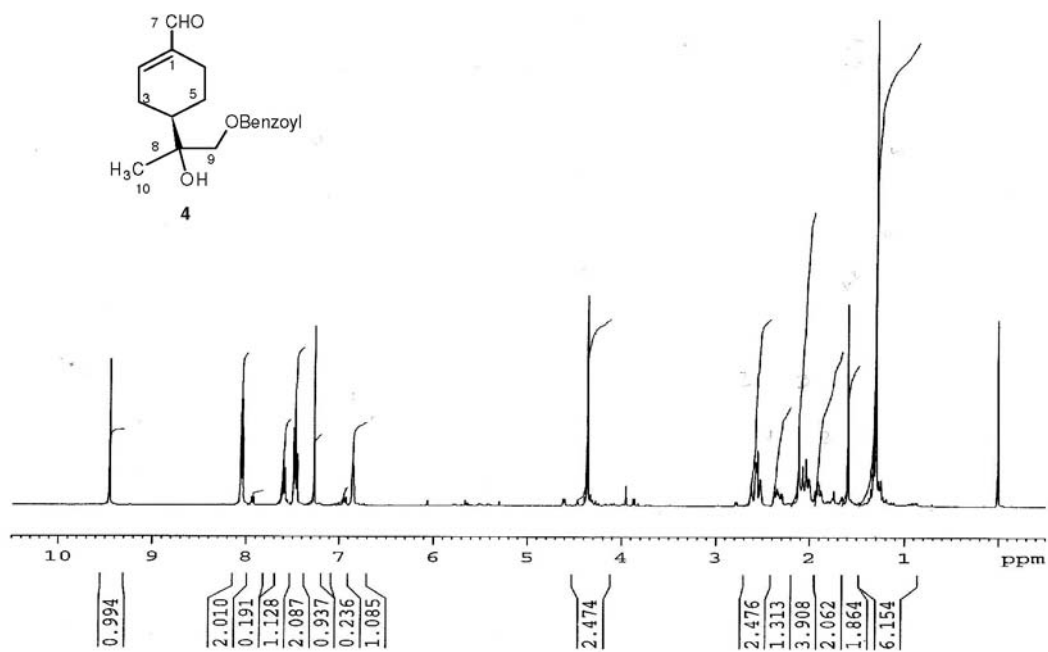
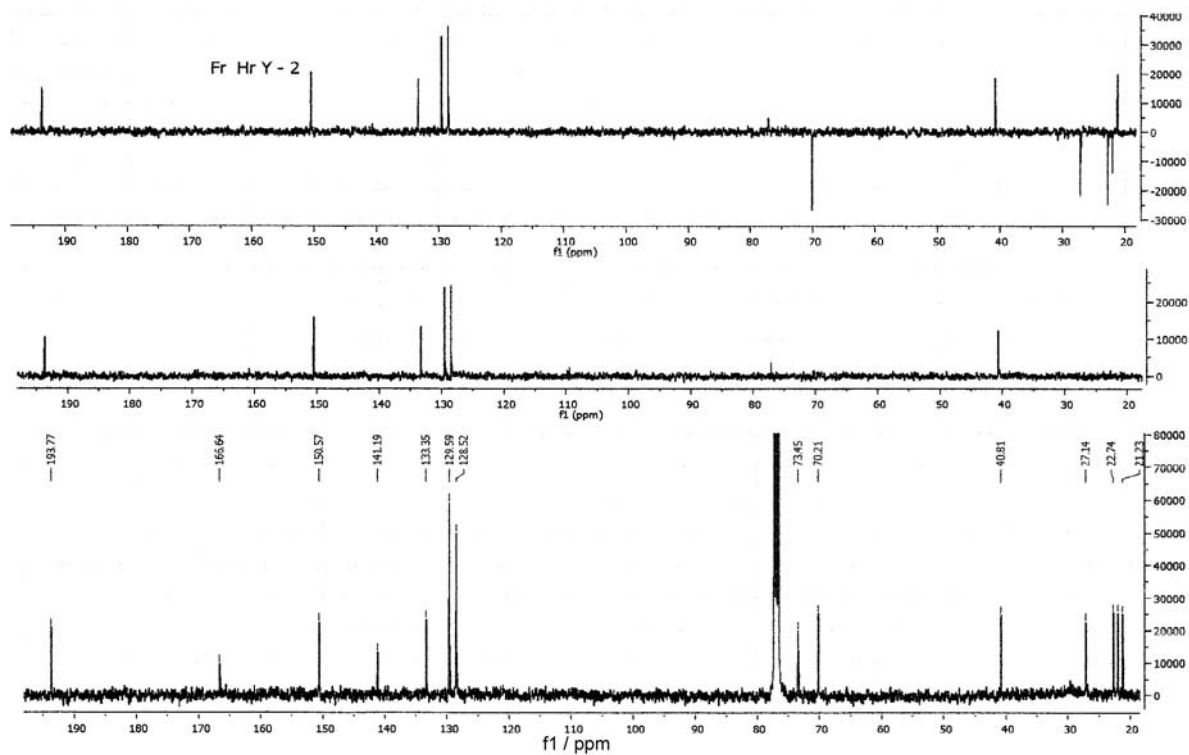
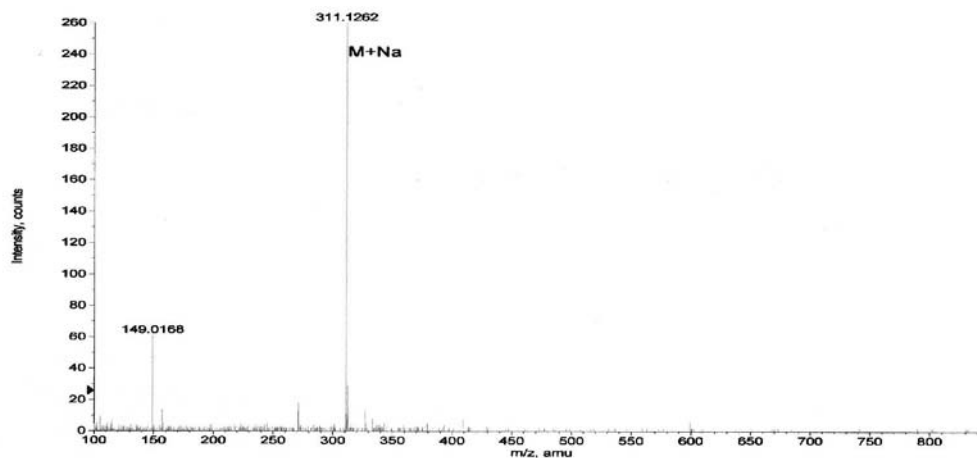
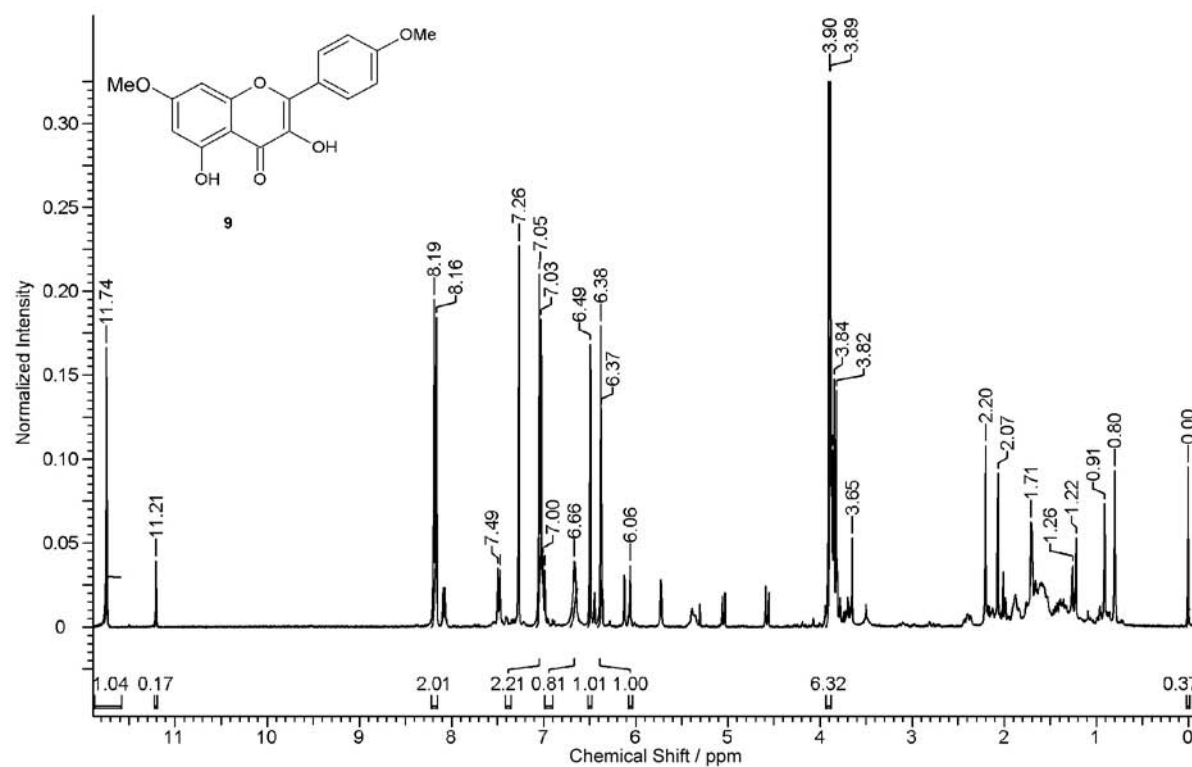
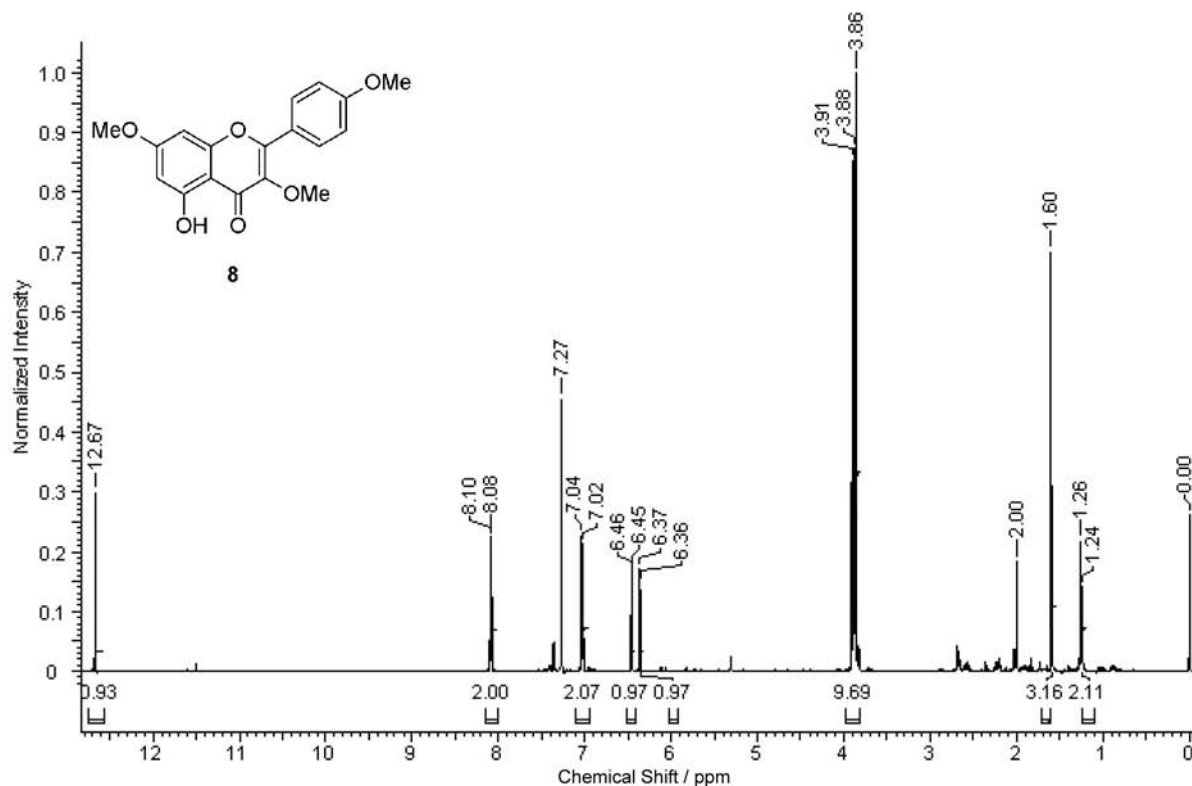


Figure S4. ^1H NMR spectrum of compound **4**, in CDCl_3 .

Figure S5. ^{13}C NMR spectra of compound 4, in CDCl_3 .

Formula	CalculatedMass	mDaError	ppmError	RDB
C2 H16 N12 O5 Na	311.125883	0.316944	1.018697	0.5
C18 H16 N4 Na	311.126718	-0.517792	-1.664248	12.5
H11 N18 O3	311.125603	0.597076	1.919076	4.5
C17 H20 O4 Na	311.12538	0.81952	2.634039	7.5
C3 H12 N16 O Na	311.12722	-1.020368	-3.279589	5.5
C15 H15 N6 O2	311.1251	1.099652	3.534418	11.5
C19 H19 O4	311.127786	-1.58574	-5.096765	10.5
C4 H15 N12 O5	311.128288	-2.088316	-6.712107	3.5
C6 H20 N6 O7 Na	311.128568	-2.368448	-7.612486	-0.5
C14 H19 N2 O6	311.123763	2.436964	7.832705	6.5
C20 H15 N4	311.129123	-2.923052	-9.395052	15.5

Figure S6. TOF mass spectrum of compound 4.

Figure S10. ¹H NMR spectrum of compound **9**, in CDCl₃.

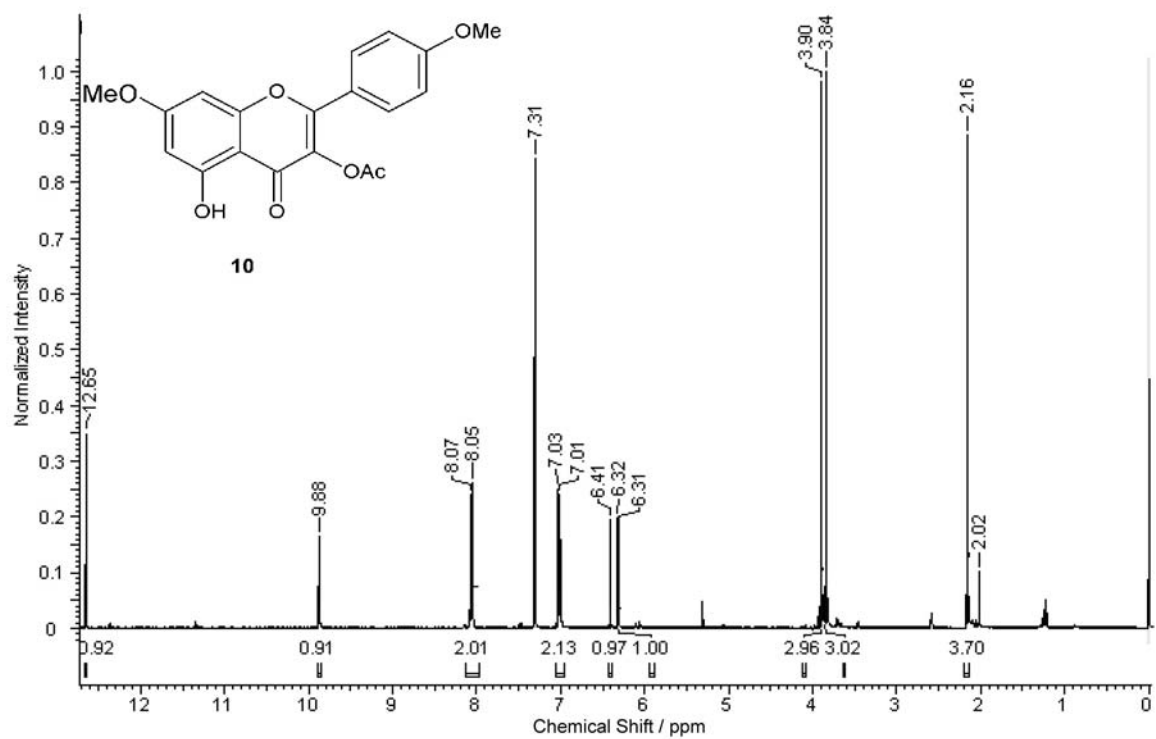


Figure S11. ^1H NMR spectrum of compound **10**, in CDCl_3 .

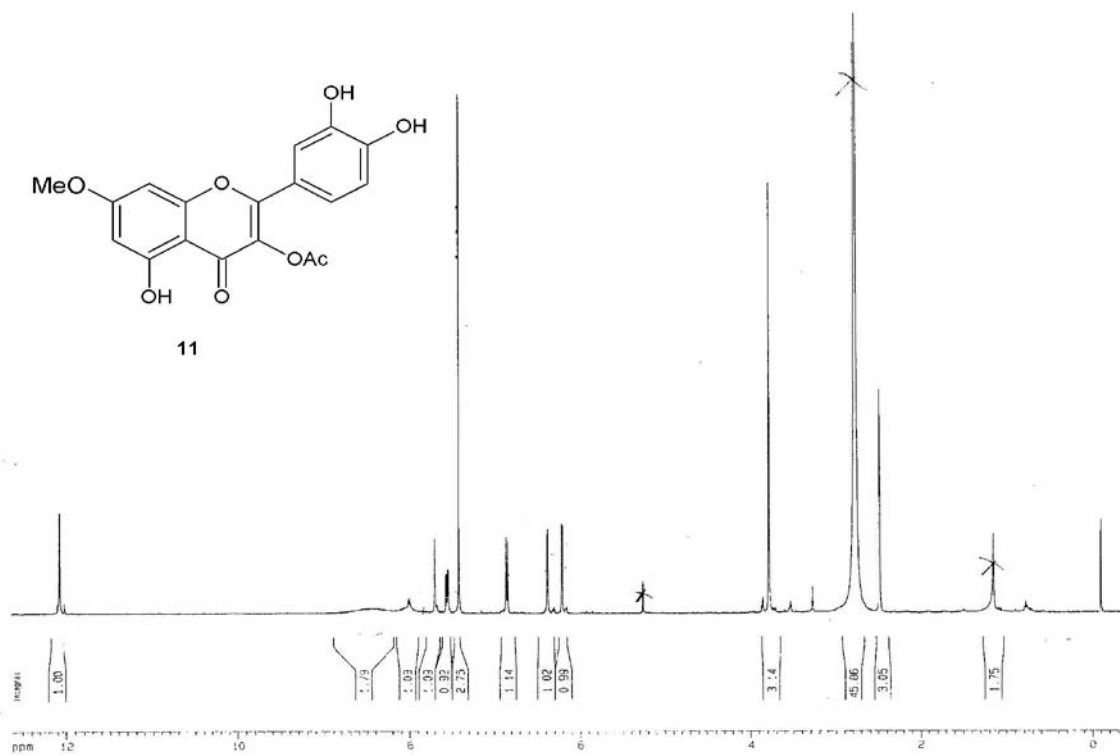


Figure S12. ^1H NMR spectrum of compound **11**, in CDCl_3 .

