**Triterpenoids from the leaves of *Alphitonia xerocarpus* Baill and their biological activity.**

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# Supporting Materials

**Table S1**: $^{1}H$ (500 MHz) and $^{13}C$ (125 MHz) RMN data of compound **1** in $CDCl_3$

Fig. S1-S3. 1D and 2D NMR spectra of compound **1**

Fig. S4-S7. 1D and 2D NMR spectra of compound **2**

Fig. S8-S9. 1D NMR spectra of compound **3**

Fig. S10-S12. 1D and 2D NMR spectra of compounds **4 + 5**

Fig. S13-S14. 1D spectra of compound **6**

Fig. S15-S16. 1D spectra of compound **7**

Fig. S17-S18. 1D spectra of compound **8**

Fig. S19. 1D spectra of compound **9**

Fig. S20-S21. 1D NMR spectra of compound **10**

Fig. S22-S24. 1D and 2D NMR spectra of compound **11**

Fig. S25-S27. 1D and 2D NMR spectra of compound **13**

**Table S1**: $^{1}H$ (500 MHz) and $^{13}C$ (125 MHz) RMN data of compound **1** in $CDCl_3$

| Position | $\delta_C$ | $\delta_H$ (*m*, *J* in Hz) | COSY | HMBC |
|---|---|---|---|---|
| **1** | - | - | - | - |
| **2** | 141.7 | 5.96 (*d*, 5.7) | H-3, H-25 | C-3, C-4, C-5, C-10, C-24, C25 |
| **3** | 140.1 | 5.43 (*d*, 5.7) | H-2, H-23, H-24 | C-2, C-4, C-5, C-10, C-23, C-25 |
| **4** | 45.7 | - | - | H-2, H-3, H-5, H-23, H-24 |
| **5** | 63.8 | 1.26 (*dd*, 11.2, 3.6) | H-6a, H-6b | C-4, C-6, C-7, C-9, C-10, C-23, C-24, C-25 |
| **6** | 18.5 | 1.45 (*m*) | H-5, H-6b, H-7a, H-7b | C-5, C-10 |
| | | 1.49 (*m*) | H-5,H-6a, H-7a, H-7b | - |
| **7** | 38.9 | 1.64 (*brd*, 13.4) | H-7b, H-6a, H-6b | C-5, C-8, C26 |
| | - | 1.77 (*dd*, 12.6, 5.6) | H-7a, H-6a, H-6b | C-8, C-26 |
| **8** | 42.4 | - | - | H-7a,b, H-9, H-11a,b, H26, H27 |
| **9** | 49.5 | 1.89 (*dd*, 12.5, 2.9) | H-11a, H-11b | C-2, C-5, C-8, C-10, C-11, C-12, C-14, C-25, C-26 |
| **10** | 51.8 | - | - | H-2, H-3, H-5, H-6a, H-9, H-25 |
| **11** | 24.2 | 1.50 (*m*) | H-11b, H-9, H-12a, H-12b | C-8, C-9, C-12 |
| | - | 1.60 (*dd*, 12.8, 4.9) | H-11a, H-9, H-12a, H-12b | C-8, C-9, C-12 |
| **12** | 27.7 | 1.55 (*dd*, 12.8, 4.5) | H12b, H-11a, H-11b, H-13 | C-9, C-11, C-13, C-14 |
| | - | 2.23 (*dd*, 12.8, 5.5) | H-11b, H-12b, H-13 | C-11, C-13 |
| **13** | 40.8 | 2.42 (*td*, 12.5, 5.3) | H-18, H-12a, H-12b | C-12, C-14, C-17, C-18, C-27 |
| **14** | 61.1 | - | - | H-9, H-12a, H-13, H15a,b, H18, H26 |
| **15** | 29.1 | 1.46 (*dd*, 15.3, 3.9) | H-15b, H-16a, H-16b | C-14, C-16, C-17 |
| | - | 2.06 (*dt*, 13.5, 2.4) | H-15a, H-16a, H-16b | C-13, C-14, C-16, C-17 |
| **16** | 35.4 | 1.39 (*dd*, 12.8, 2.9) | H-16b, H-15a, H-15b | C-15, C-17, C-28 |
| | - | 2.37 (*dt*, 12.8, 3.2) | H-16a, H-15a, H-15b | C-14, C-15, C-17, C-18, C-28 |
| **17** | 57.2 | - | - | H-13, H-15a,b, H-16a,b, H-18, H-21b, Ha,b-22, |
| **18** | 52.8 | 1.83 (*t*, 11.3) | H-13, H-19 | C-13, C-14, C-16, C-17, C-19, C-20, C-28 |
| **19** | 44.6 | 3.03 (*td*, 12.5, 4.0) | H-18, H-21a, H-21b | C-13, C-18, C-20, C-21, C-29, C-30 |
| **20** | 155.5 | - | - | H-18, H-19, H-21a,b, H-30 |
| **21** | 33.1 | 1.44 (*m*) | H-21b, H-19, H-22a, H-22b | C-17, C-19, C-20, C-22 |
| | - | 2.06 (*m*) | H-21a, H-19, H-22a, H-22b | C-17, C-18, C-19, C-20, C-22 |
| **22** | 37.9 | 1.44 (*m*) | H-22b, H-21a, H-21b | C-17, C-19, C-21, C-28 |
| | - | 1.94 (*dd*, 10.7, 8.3) | H22a, H-21a, H21b | C-18, C-19, C-17, C28 |
| **23** | 29.7 | 1.01 (*s*) | - | C-2, C-3, C-4, C-5, C-24 |
| **24** | 21.8 | 0.94 (*s*) | - | C-2, C-3, C-4, C-5, C-23 |
| **25** | 20.7 | 1.01 (*s*) | - | C-2, C-5, C-9, C-10 |
| **26** | 18.7 | 1.08 (*s*) | - | C-7, C-8, C-9, C-14 |
| **27** | 178.6 | - | - | H-13, H-15a,b |
| **28** | 179.3 | - | - | H-16a,b, H-18, H22a,b |
| **29** | 64.9 | 4.05 (*d*, 14.8) | H-30a, H-30b | C-20, C-30 |
| | - | 4.16 (*d*, 14.8) | - | C-20, C-30 |
| **30** | 107.7 | 4,95 (*brs*) | H-29 | C-19, C-20, C-29 |
| | - | 4,99 (*d*, 1.5) | H-29 | C-19, C-20, C-29 |

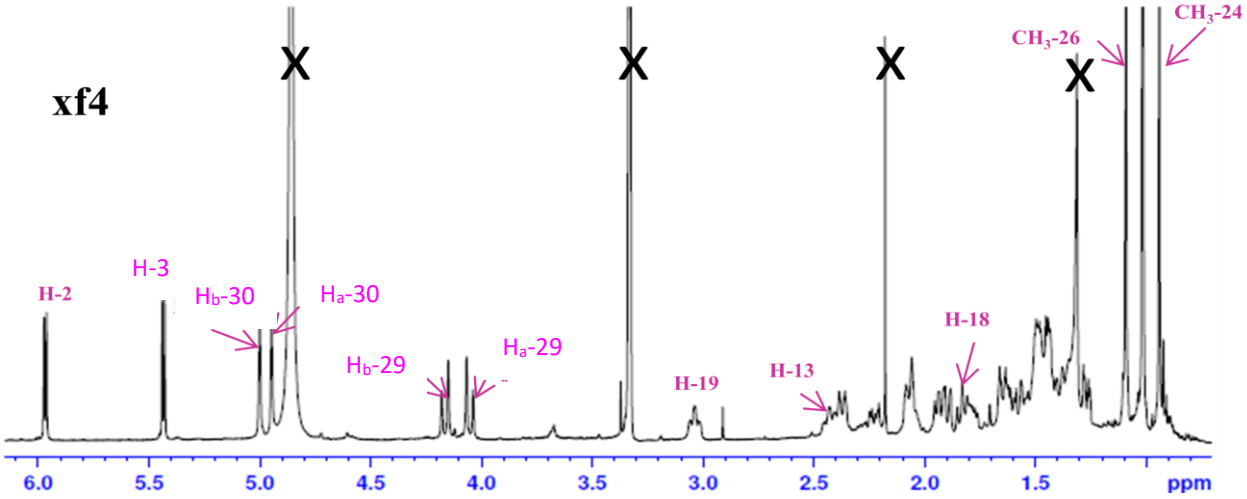


**Figure S1**: $^{1}$H NMR spectrum of compound **1** ($CD_3OD$, 600 MHz)

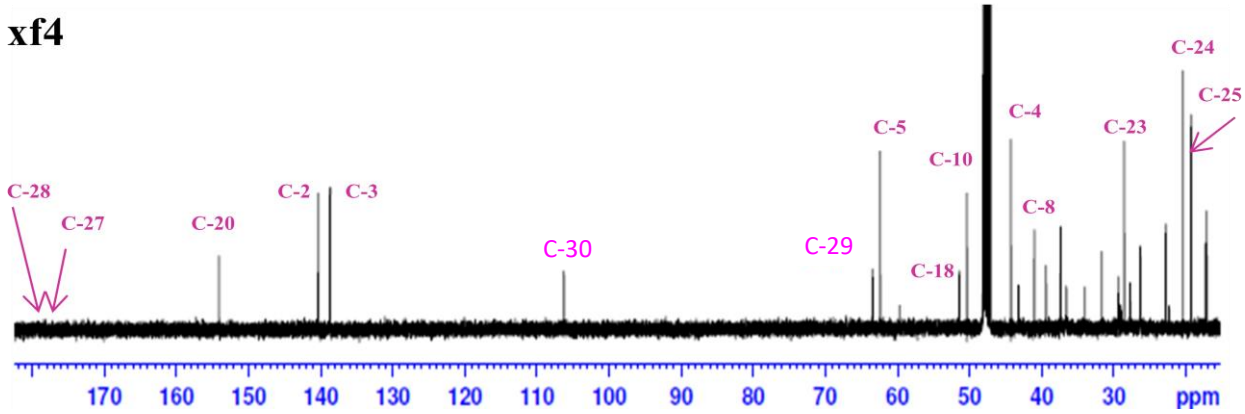


**Figure S2**: $^{13}$C NMR spectrum of compound **1** ($CD_3OD$, 600 MHz)

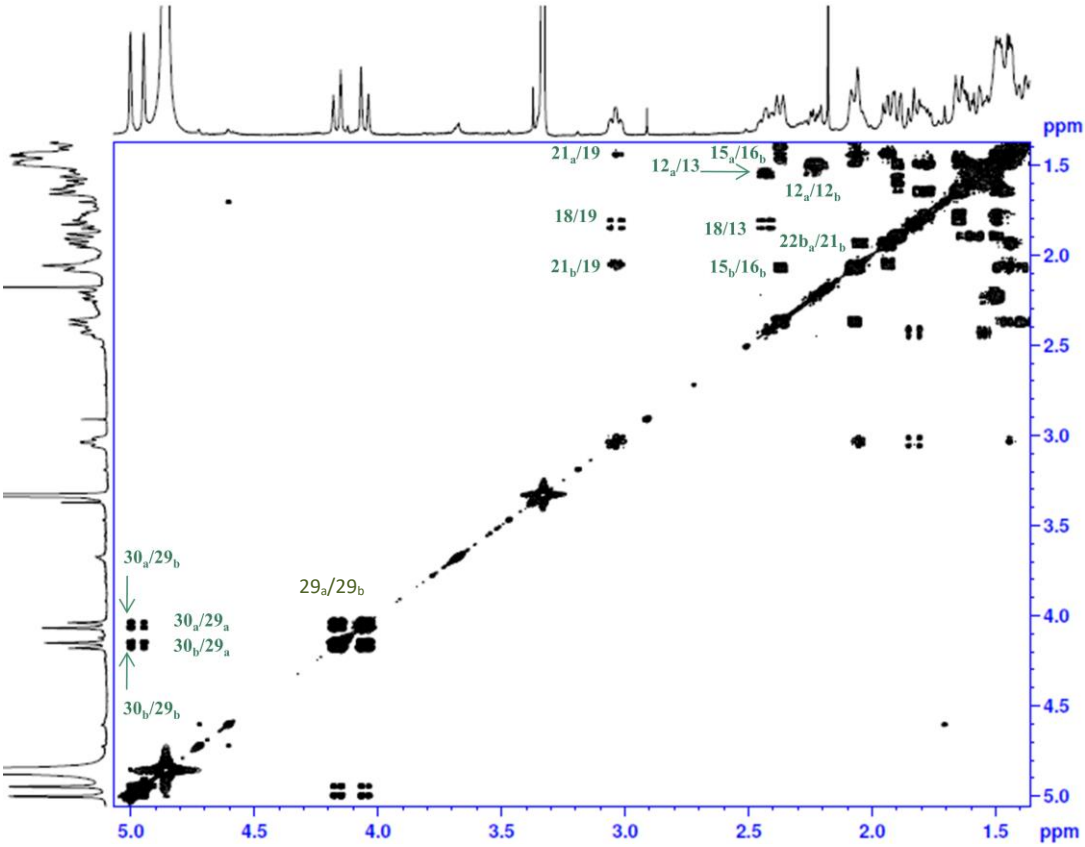


**Figure S3**: COSY spectrum of compound **1** ($CD_3OD$).

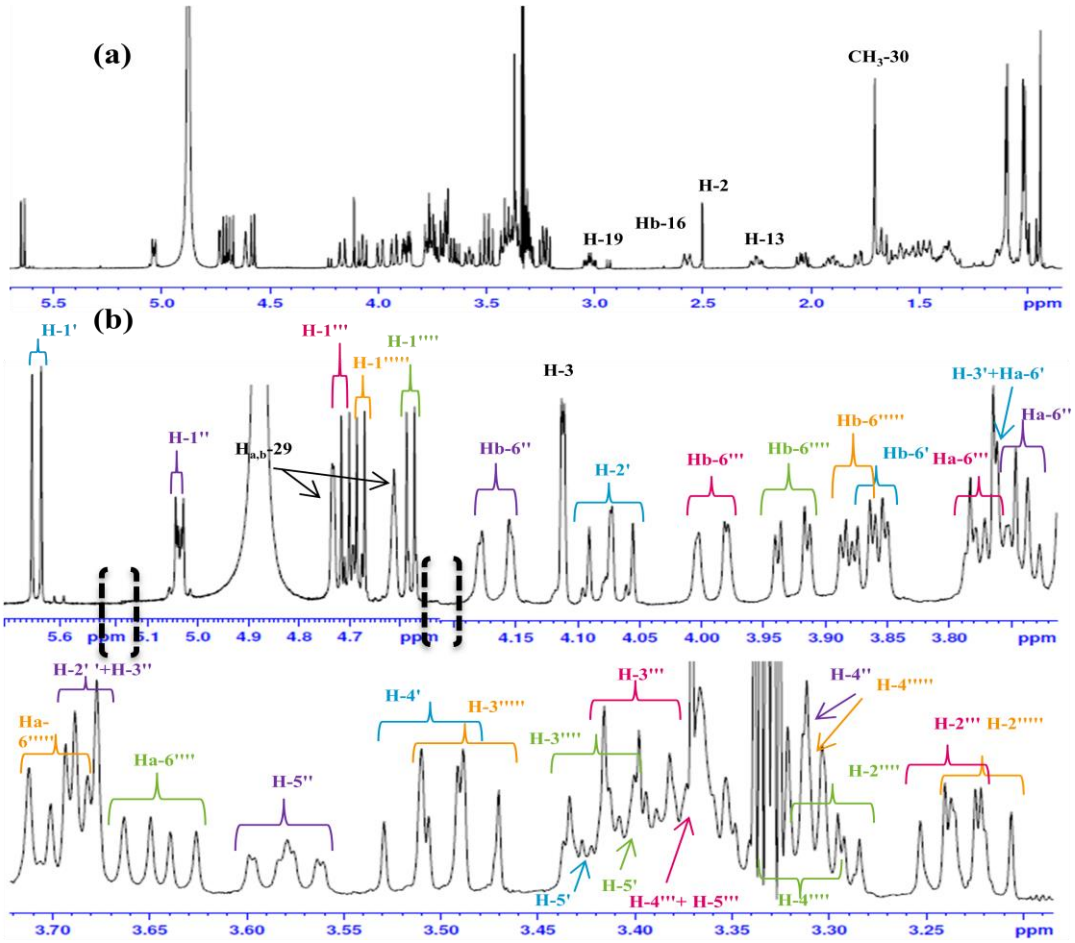


**Figure S4**: $^{1}$H NMR spectrum of compound **2 (a)** with zoom on osidic part (**b**) ($CD_3OD$, 600 MHz)

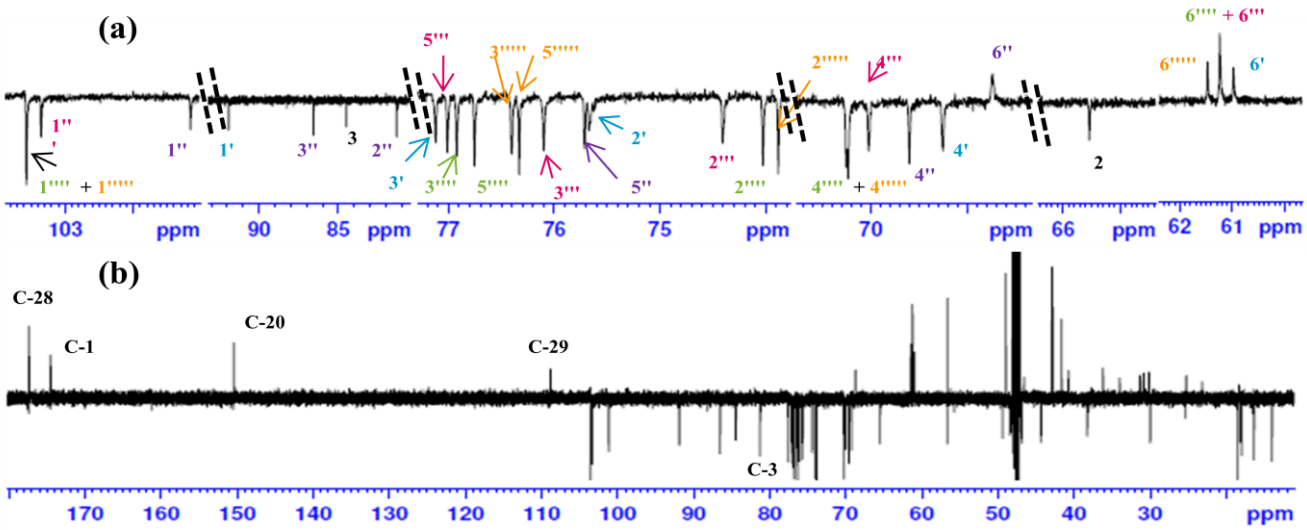


**Figure S5**: $^{13}$C NMR spectrum of compound **2 (b)** with zoom on osidic part (**a**) ($CD_3OD$, 600 MHz)

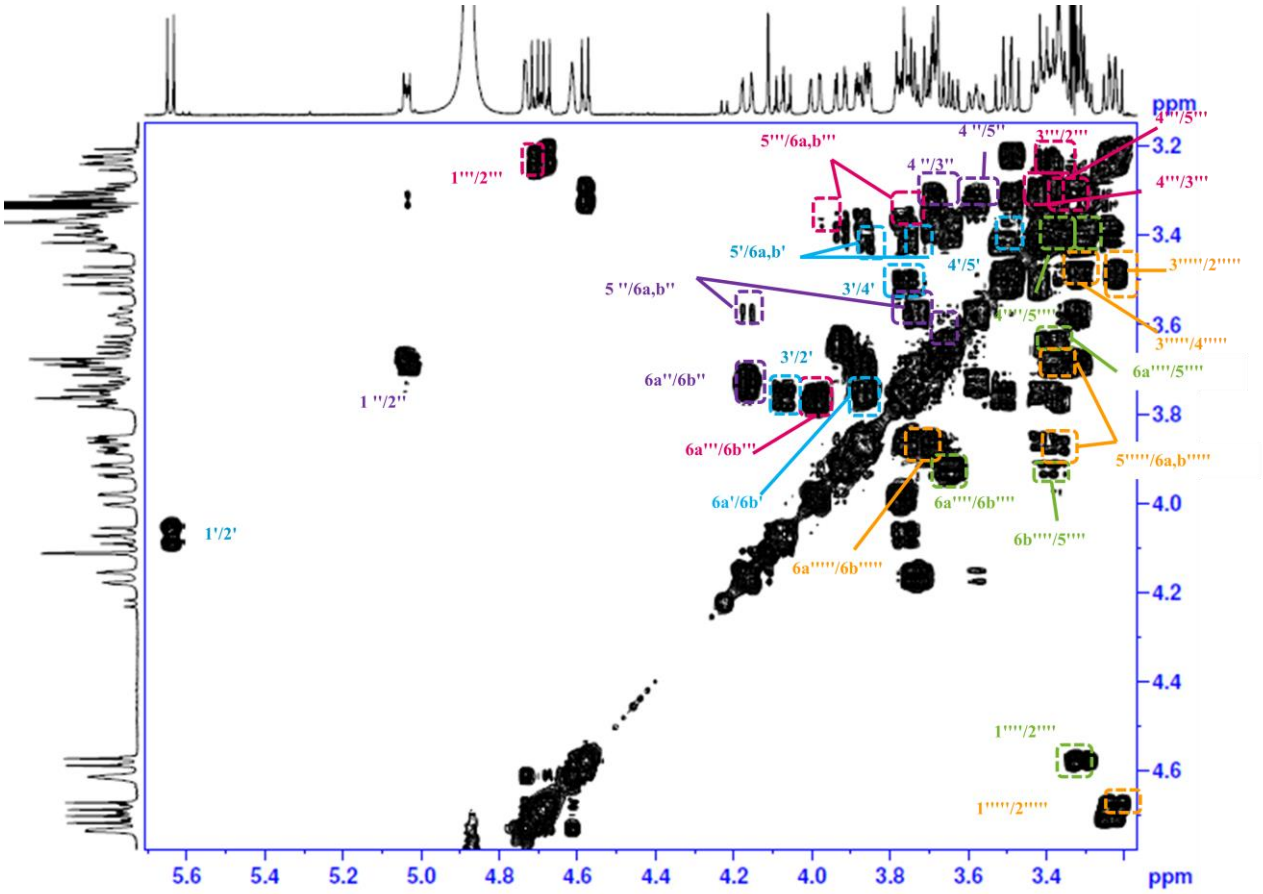


**Figure S6**: COSY spectrum of the osidic part of compound **2** ($CD_3OD$).

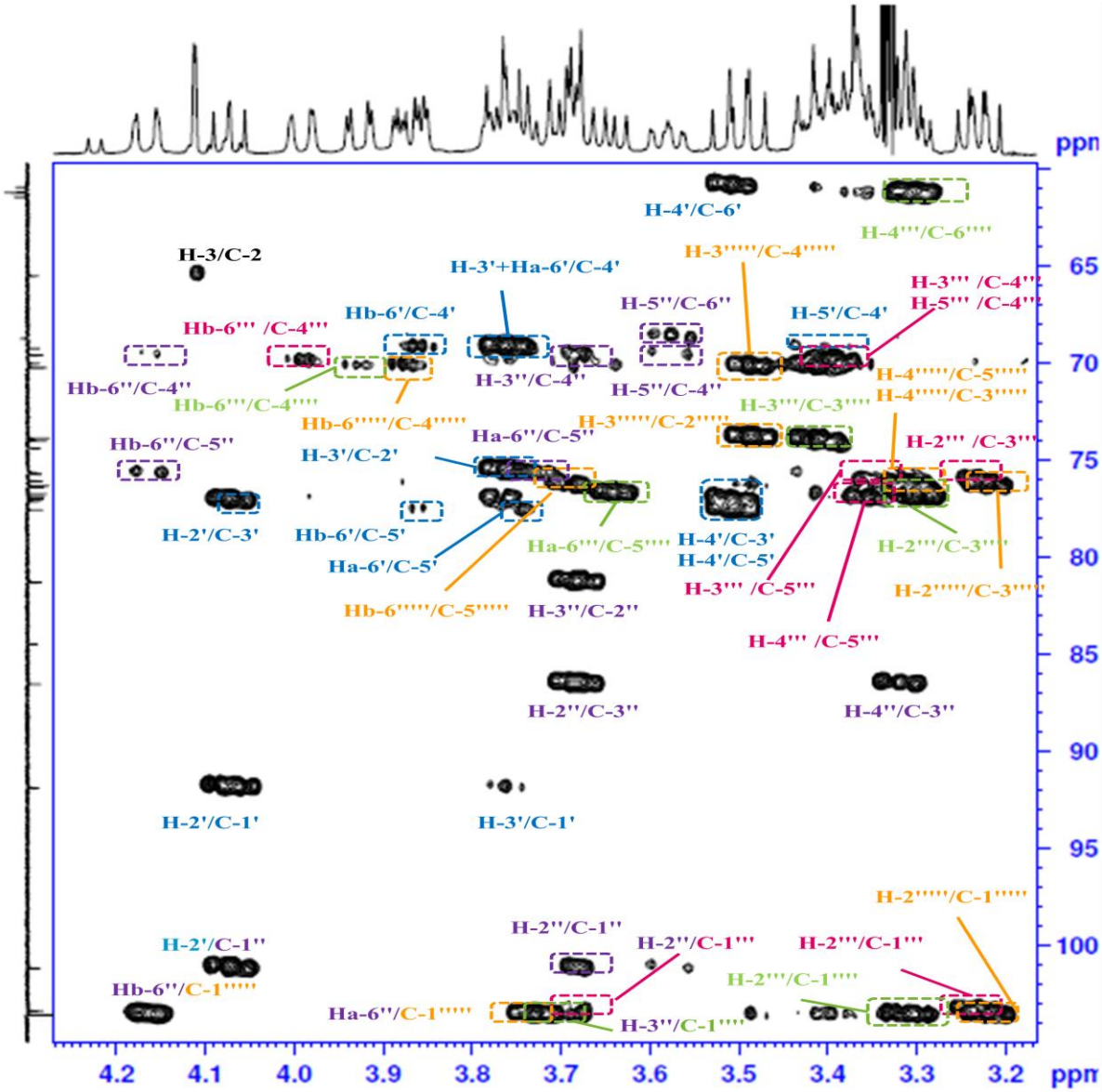


**Figure S7**: HMBC spectrum of the osidic part of compound **2** ($CD_3OD$).

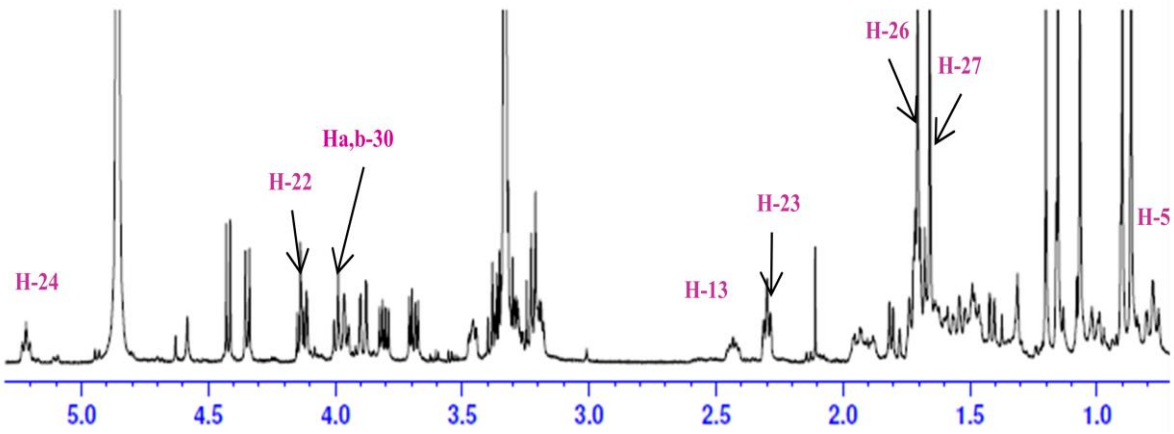


**Figure S8**: $^{1}$H NMR spectrum of compound **3** ($CD_3OD$, 600 MHz)

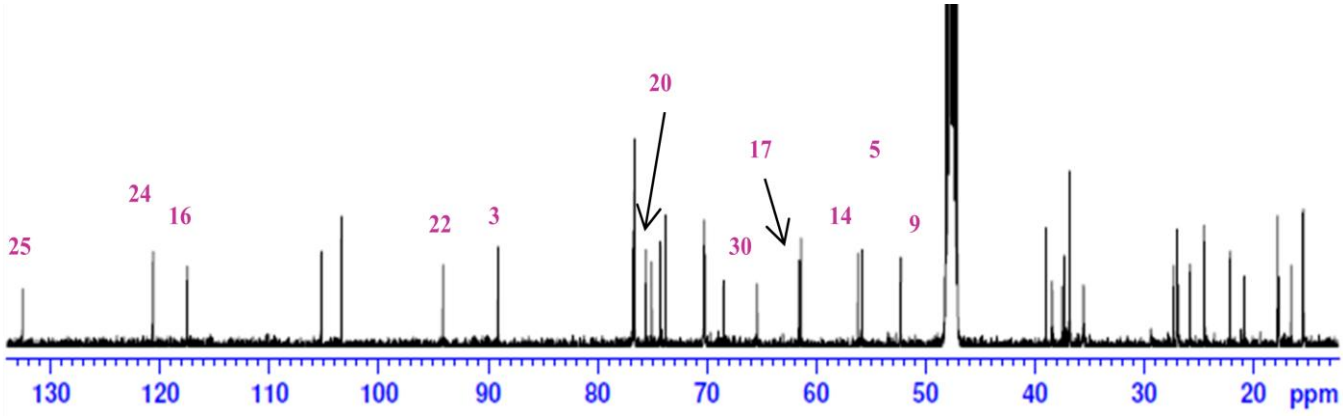


**Figure S9**: $^{13}$C NMR spectrum of compound **3** ($CD_3OD$, 600 MHz)

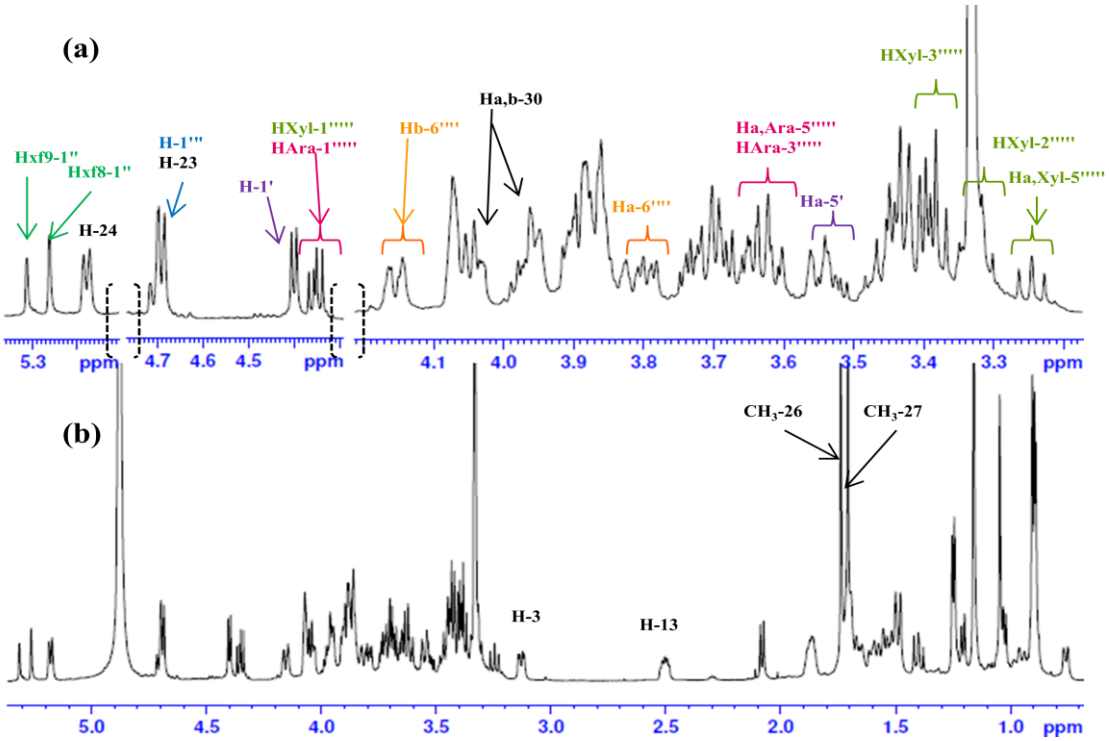


**Figure S10**: $^{1}$H NMR spectrum of compounds **4**+**5 (b)** with zoom on osidic part (**a**) ($CD_3OD$, 600 MHz)

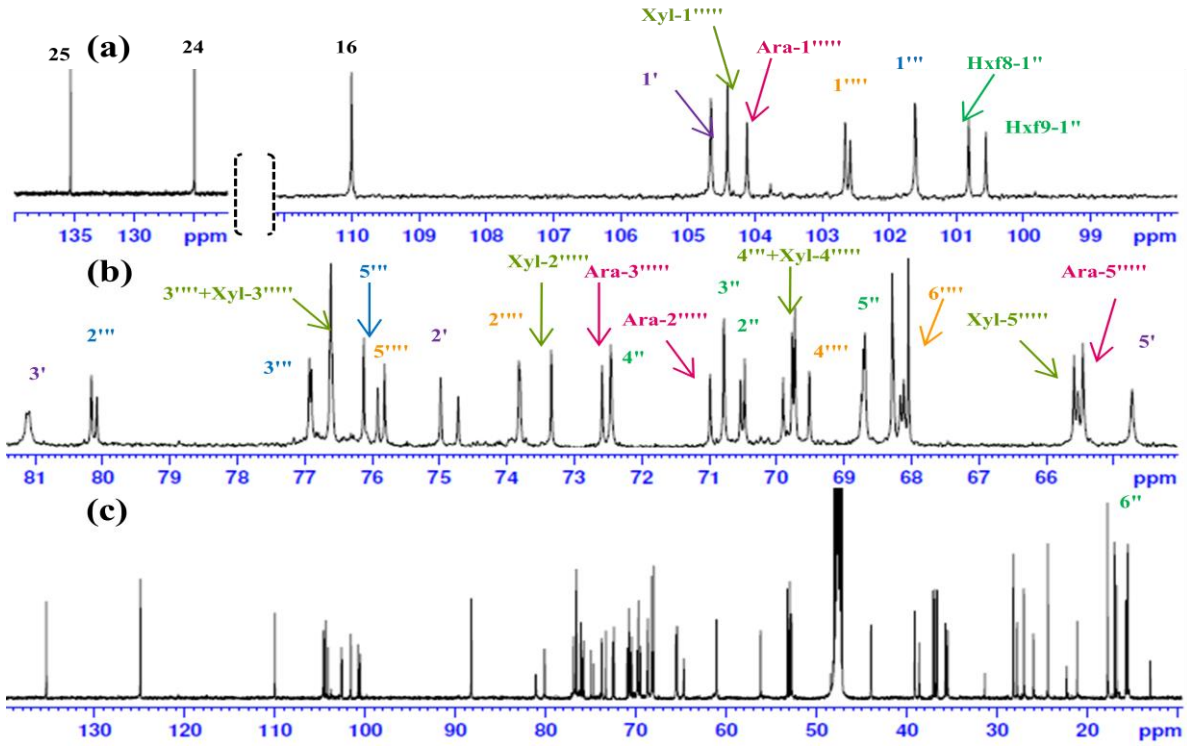


**Figure S11**: $^{13}$C NMR spectrum of compounds **4**+**5 (c)** with zoom on osidic part (**a, b**) ($CD_3OD$, 600 MHz)

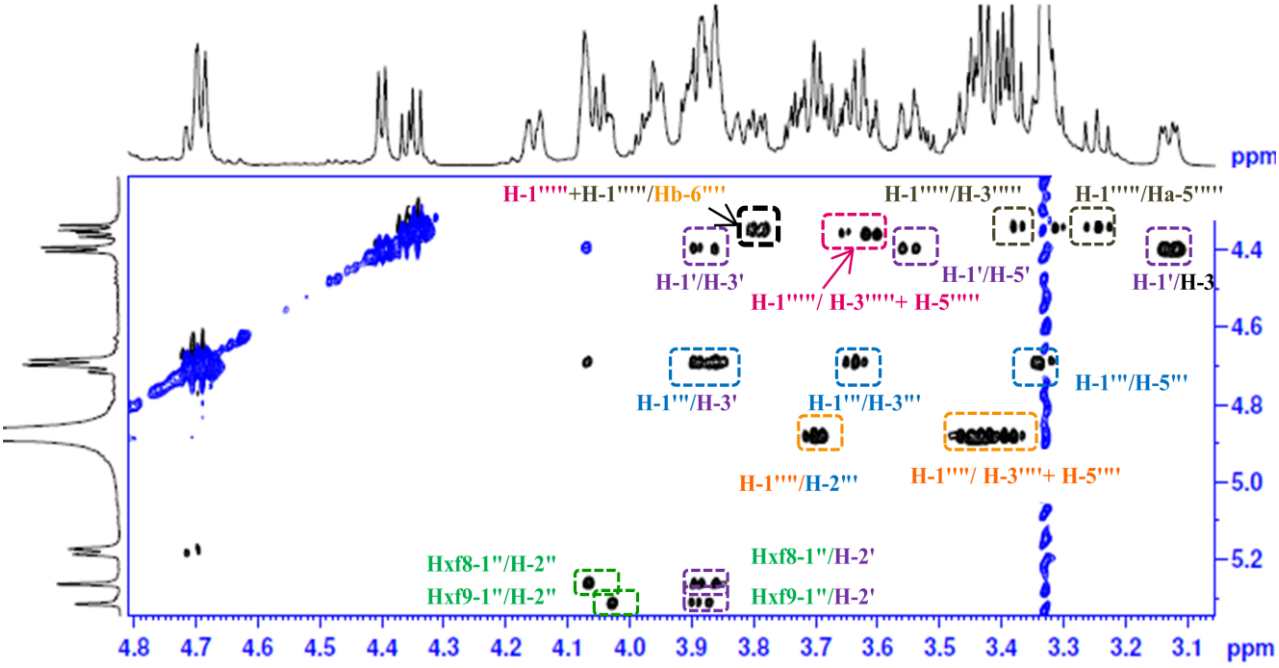


**Figure S12**: ROESY spectrum of the osidic part of compounds **4**+**5 (c)** ($CD_3OD$)

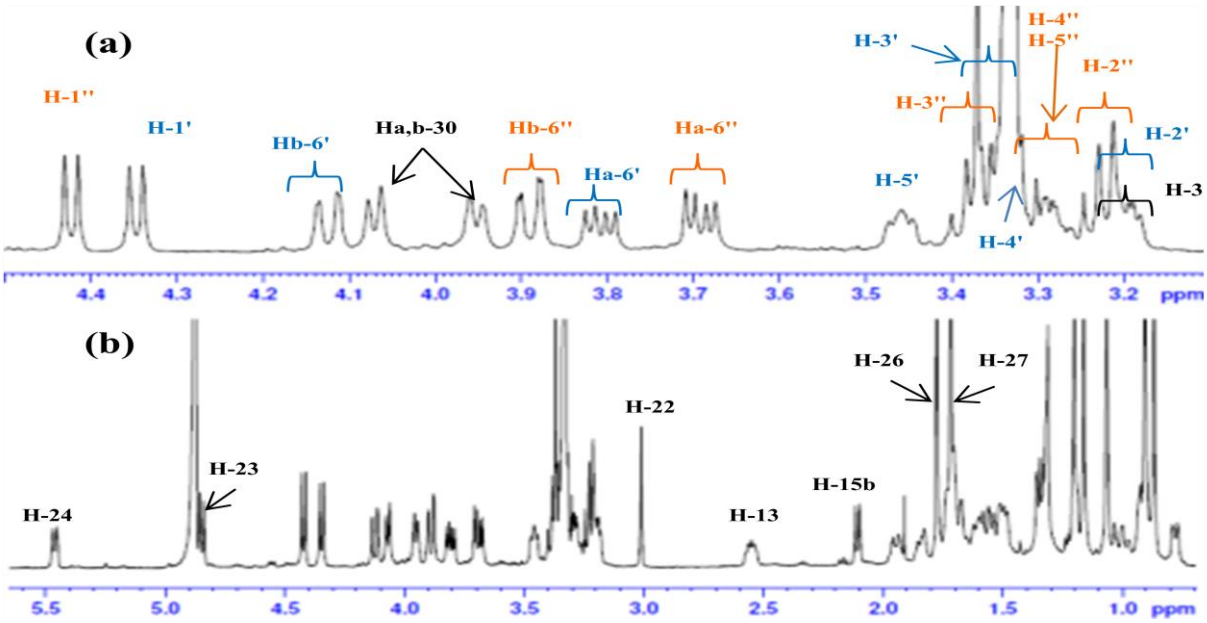


**Figure S13**: $^{1}$H NMR spectrum of compound **6 (b)** with zoom on osidic part (**a**) ($CD_3OD$, 600 MHz)

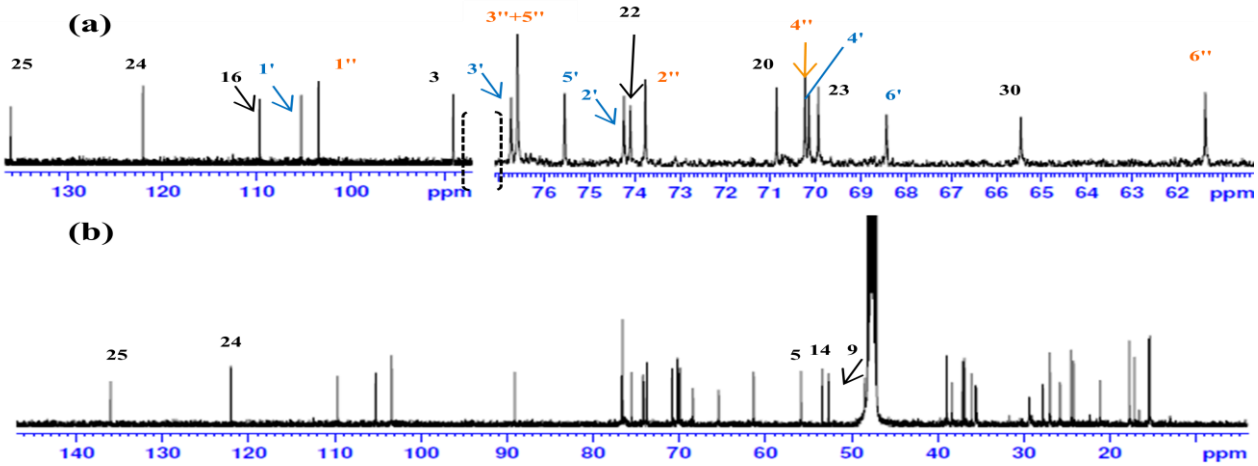


**Figure S14**: $^{13}$C NMR spectrum of compound **6 (b)** with zoom on osidic part (**a**) ($CD_3OD$, 600 MHz)

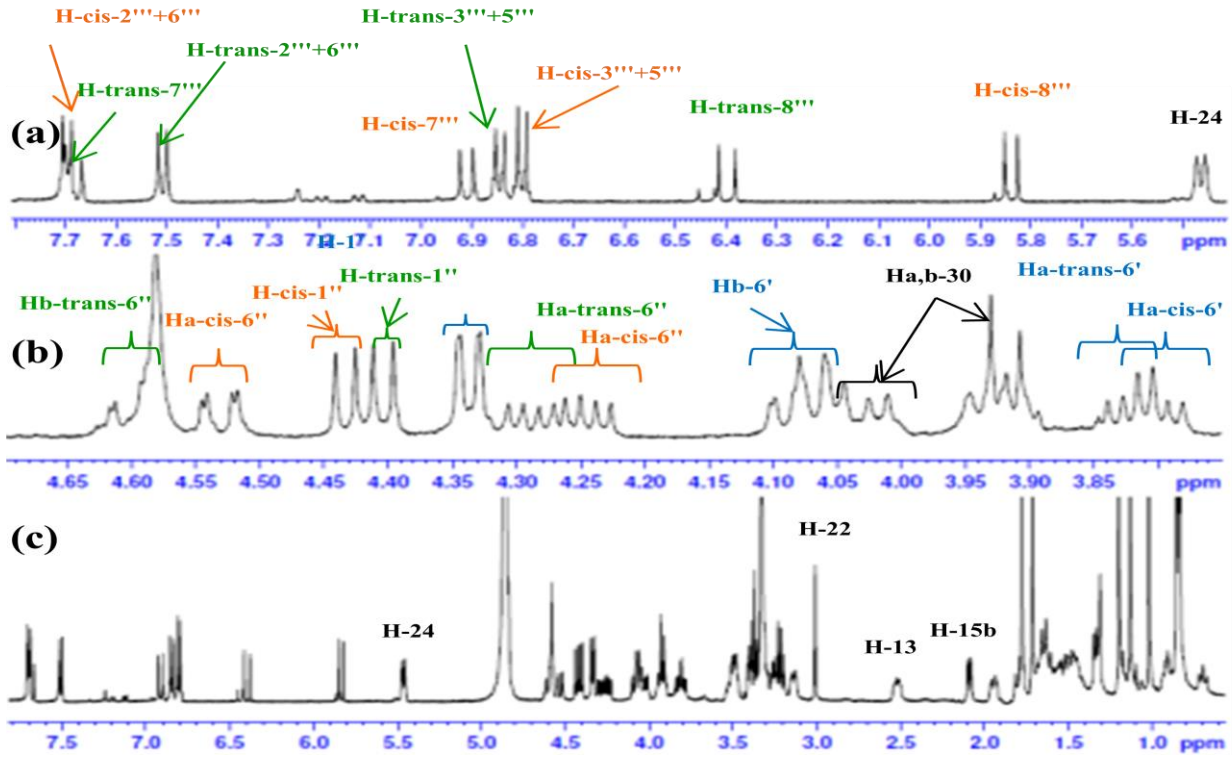


**Figure S15**: $^{1}$H NMR spectrum of compound **7 (c)** with zoom on osidic part (**b**) and aromatic part (**a**) ($CD_3OD$, 600 MHz)

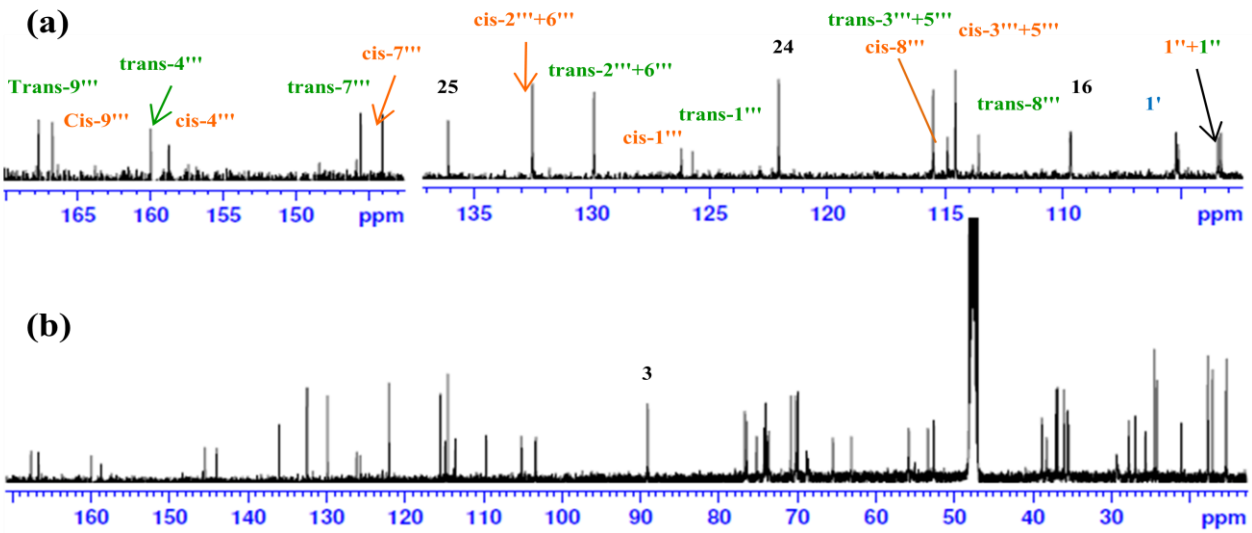


**Figure S16**: $^{13}$C NMR spectrum of compound **7** (**b**) with zoom on aromatic part (**a**) ($CD_3OD$, 600 MHz)

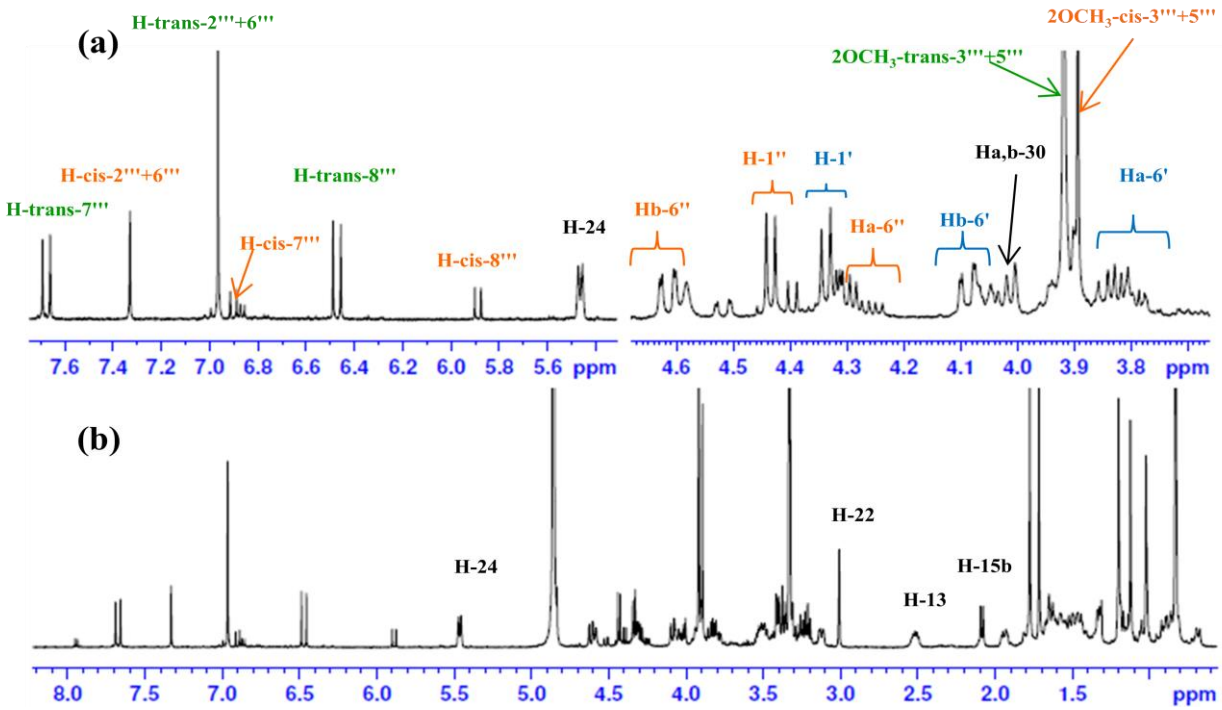


**Figure S17**: $^{1}$H NMR spectrum of compound **8** (**b**) with zoom on osidic part and aromatic part (**a**) ($CD_3OD$, 600 MHz)

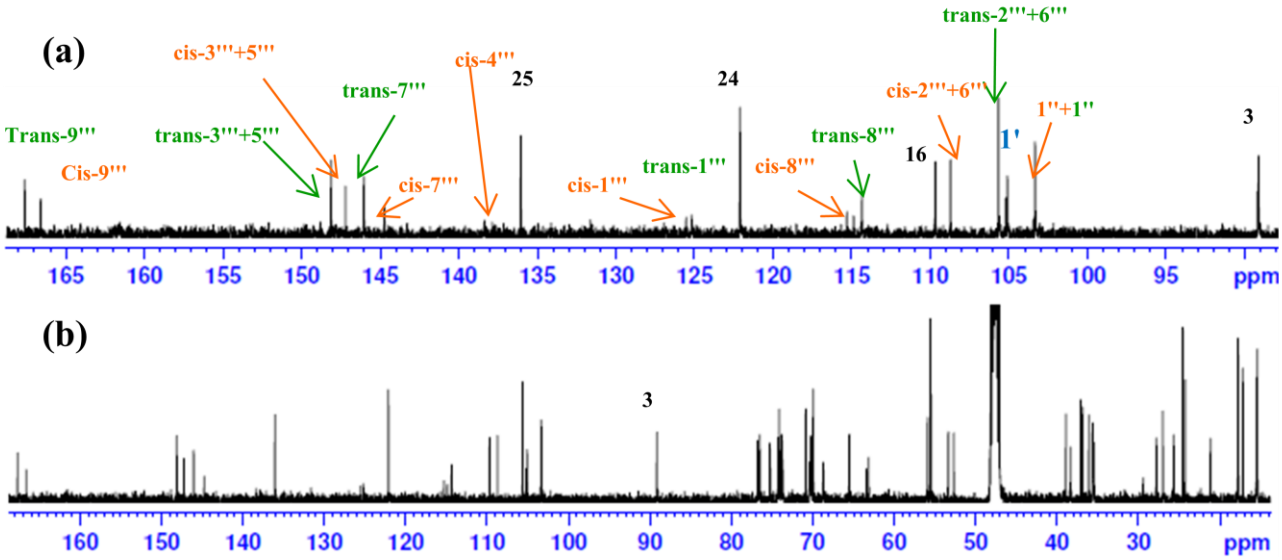


**Figure S18**: $^{13}$C NMR spectrum of compound **8** (**b**) with zoom on aromatic part (**a**) ($CD_3OD$, 600 MHz)

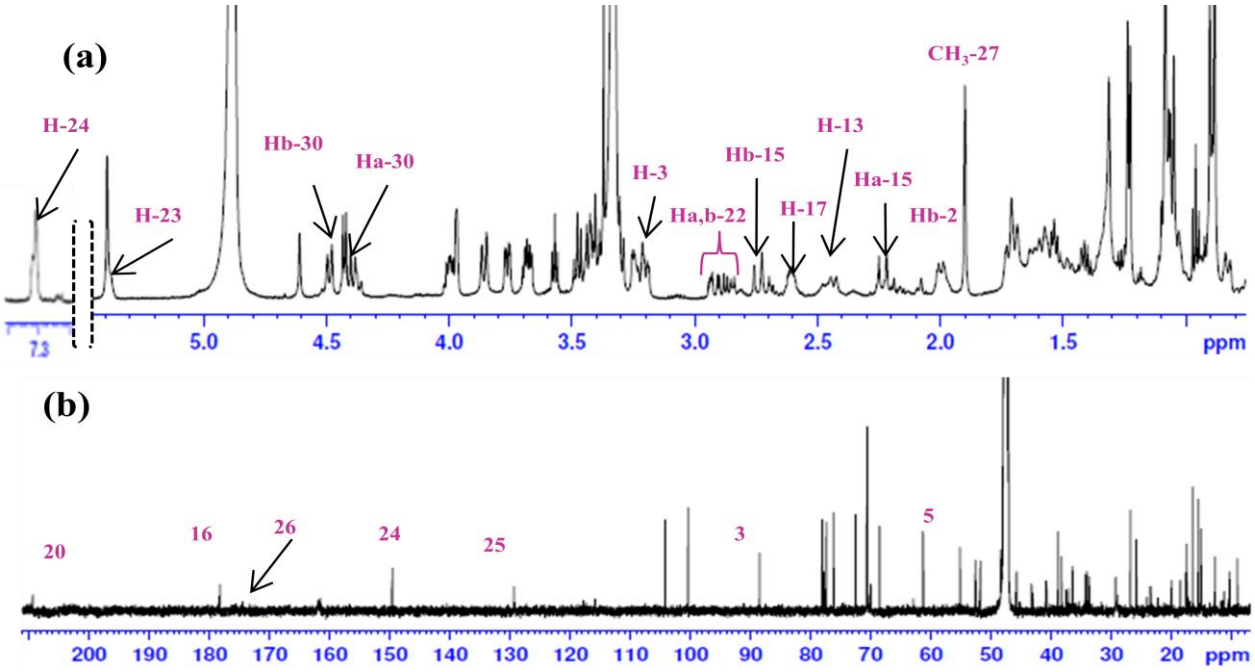


**Figure S19**: $^{1}$H NMR (**a**) and $^{13}$C NMR (**b**) spectra of compound **9** ($CD_3OD$, 600 MHz)

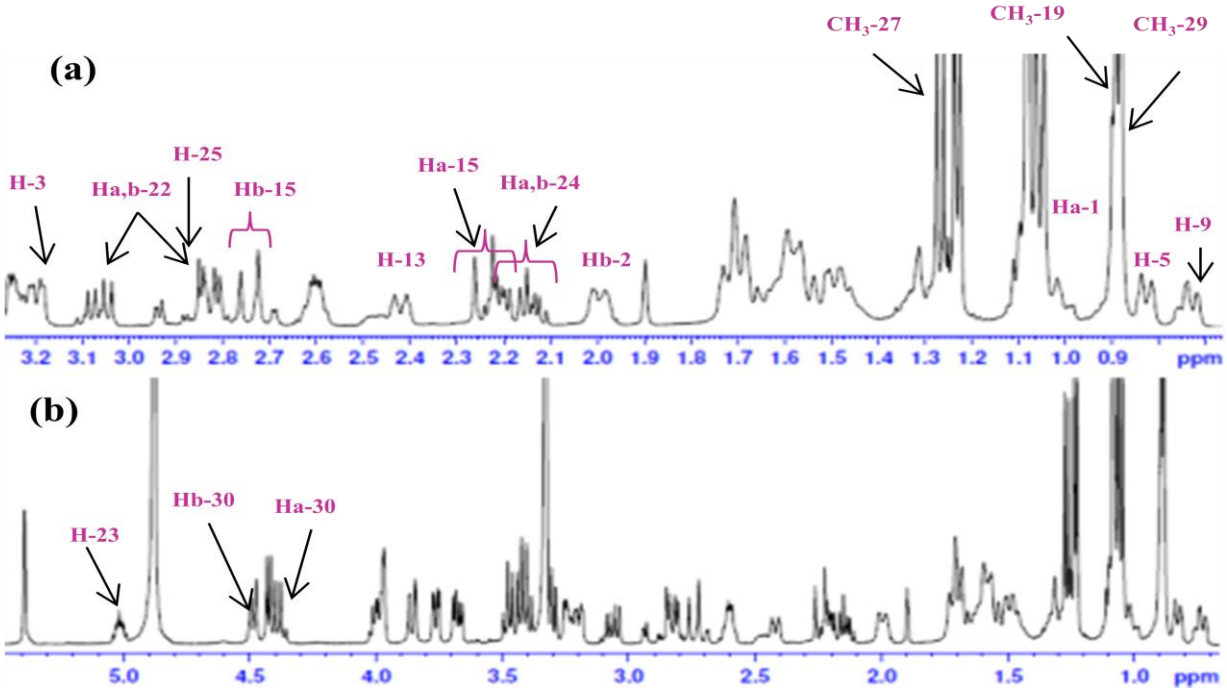


**Figure S20**: $^{1}$H NMR spectrum of compound **10** (**b**) with zoom on aglycone part (**a**) ($CD_3OD$, 600 MHz)

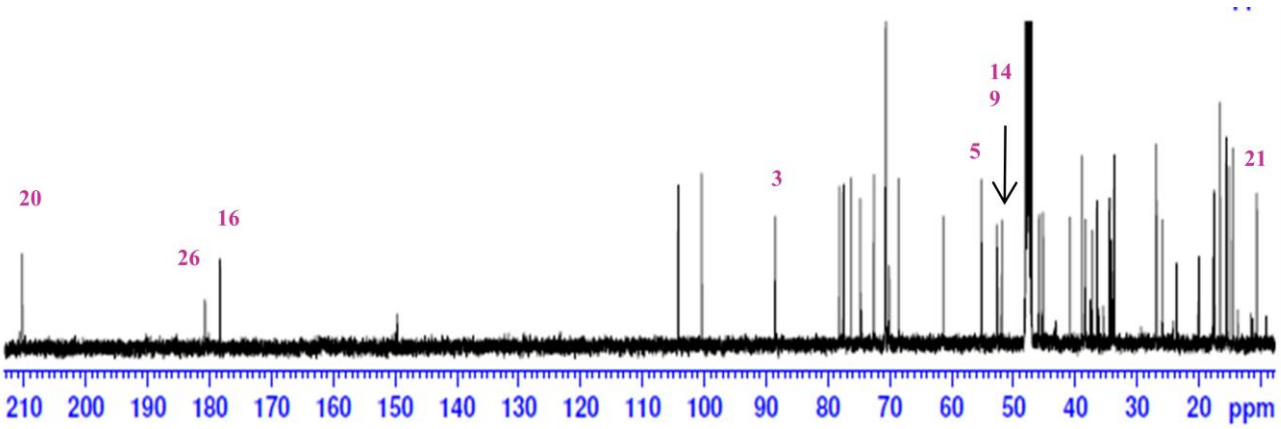


**Figure S21**: $^{13}$C NMR spectrum of compound **10** (**b**) ($CD_3OD$, 600 MHz)

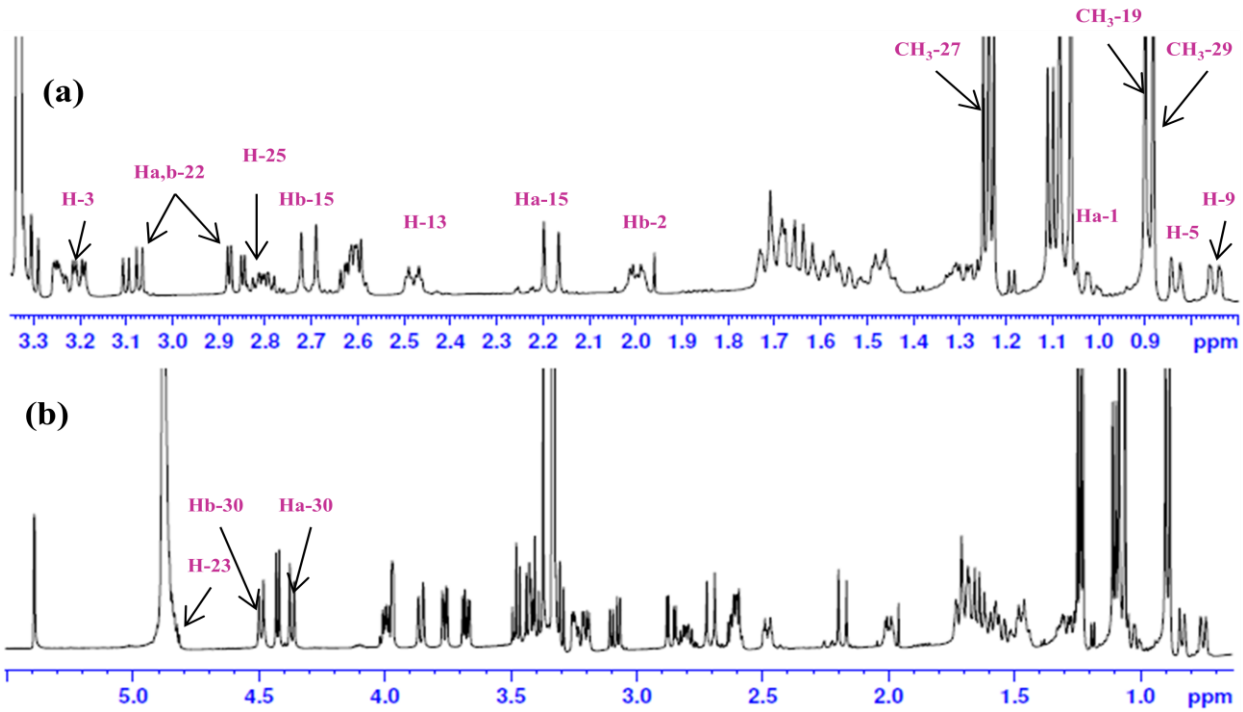


**Figure S22**: $^{1}$H NMR spectrum of compound **11** (**b**) with zoom on aglycone part (**a**) ($CD_3OD$, 600 MHz)

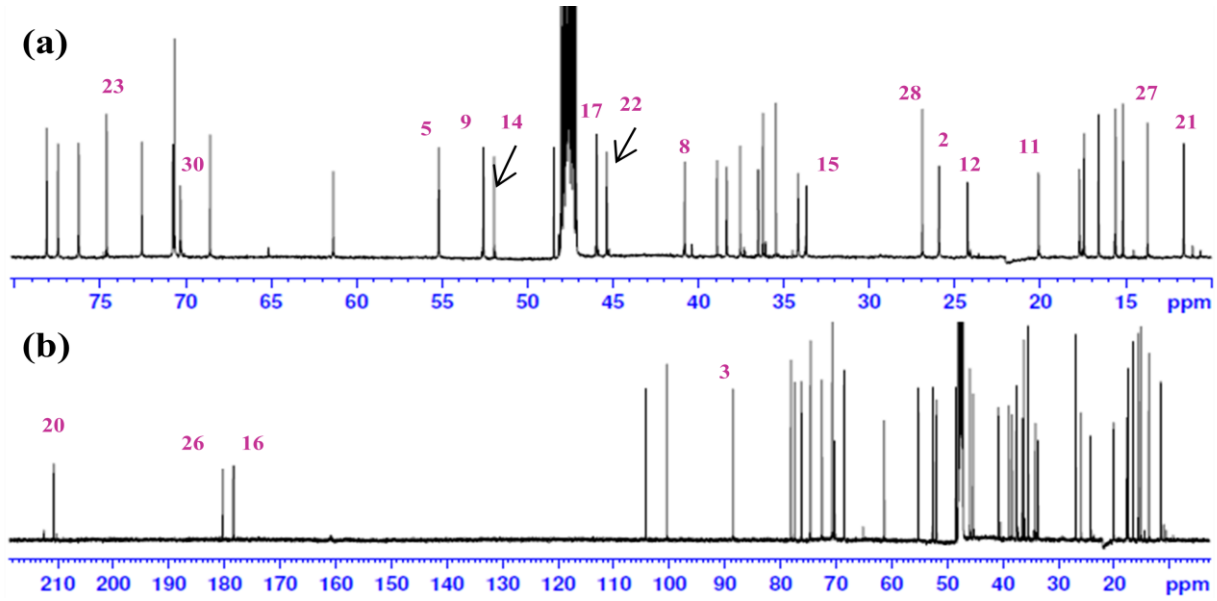


**Figure S23**: $^{13}$C NMR spectrum of compound **11** (**b**) with zoom on aglycone part (**a**) ($CD_3OD$, 600 MHz)

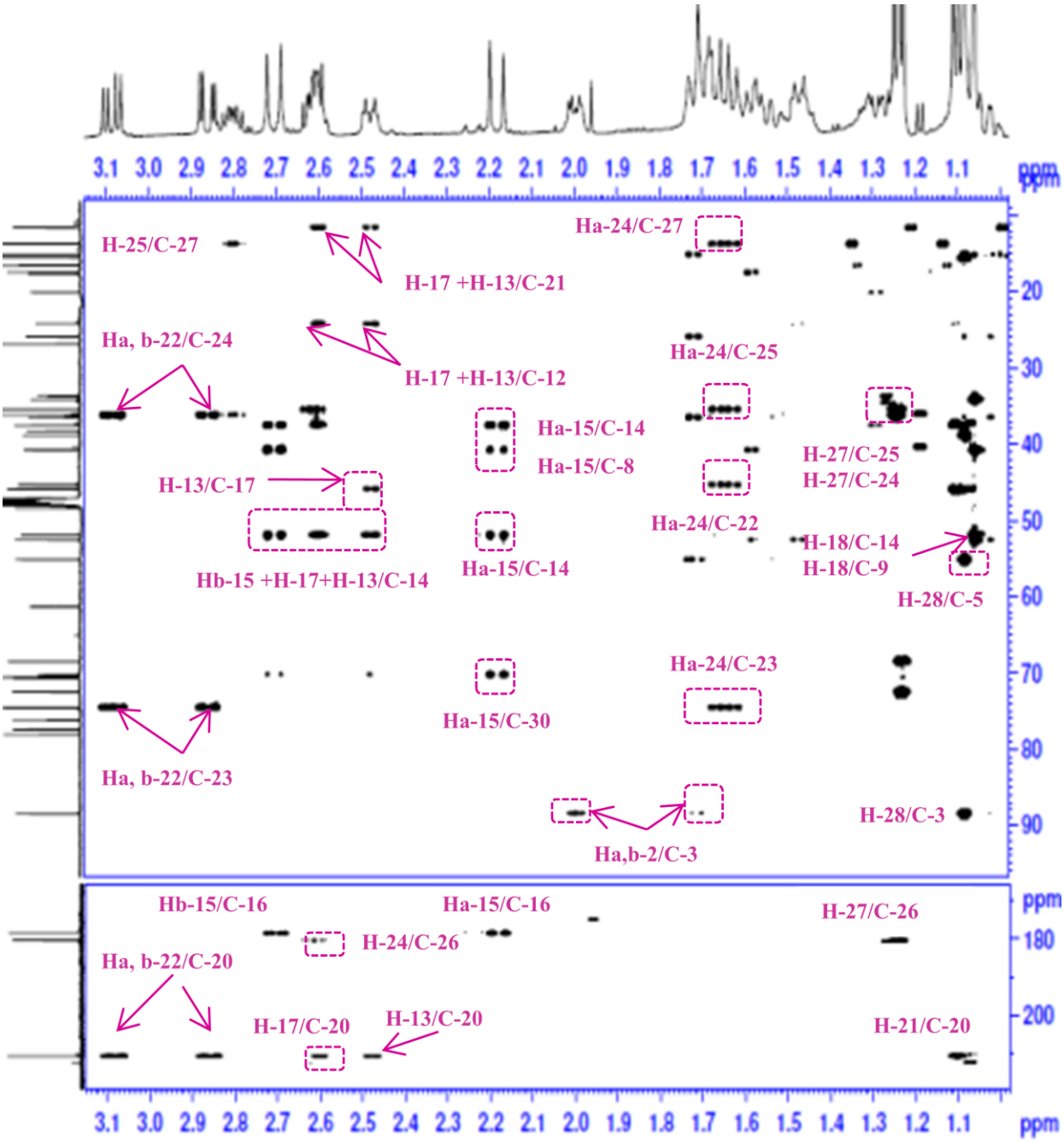


**Figure S24**: HMBC spectrum of the aglycone part of compound **11** ($CD_3OD$).

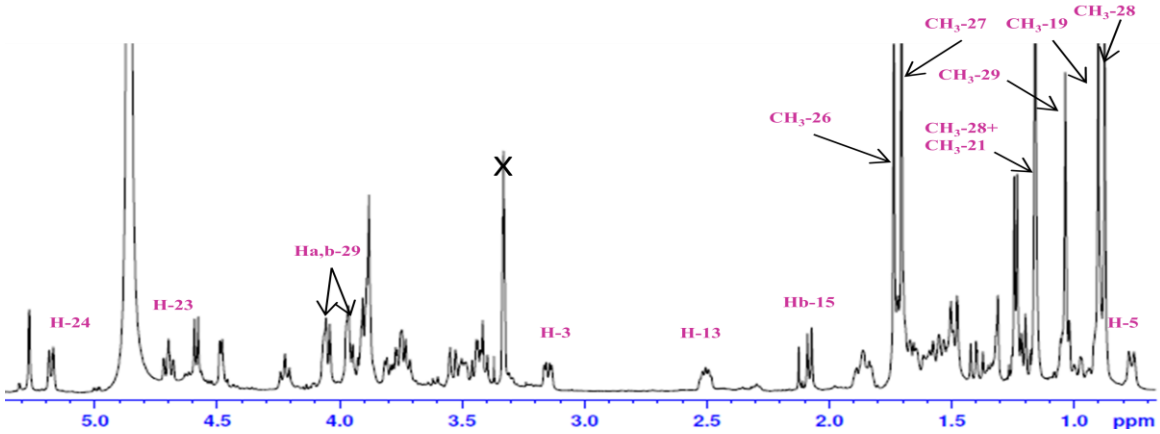


**Figure S25**: $^{1}$H NMR spectrum of compound **13** ($CD_3OD$, 600 MHz)

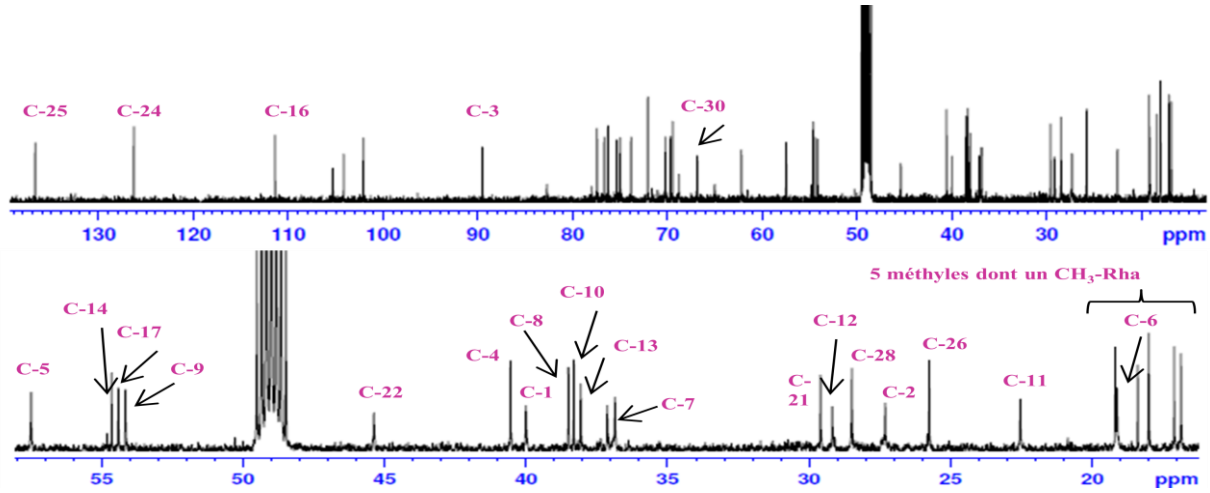


**Figure S26**: $^{13}$C NMR spectrum of compound **13** ($CD_3OD$, 600 MHz)

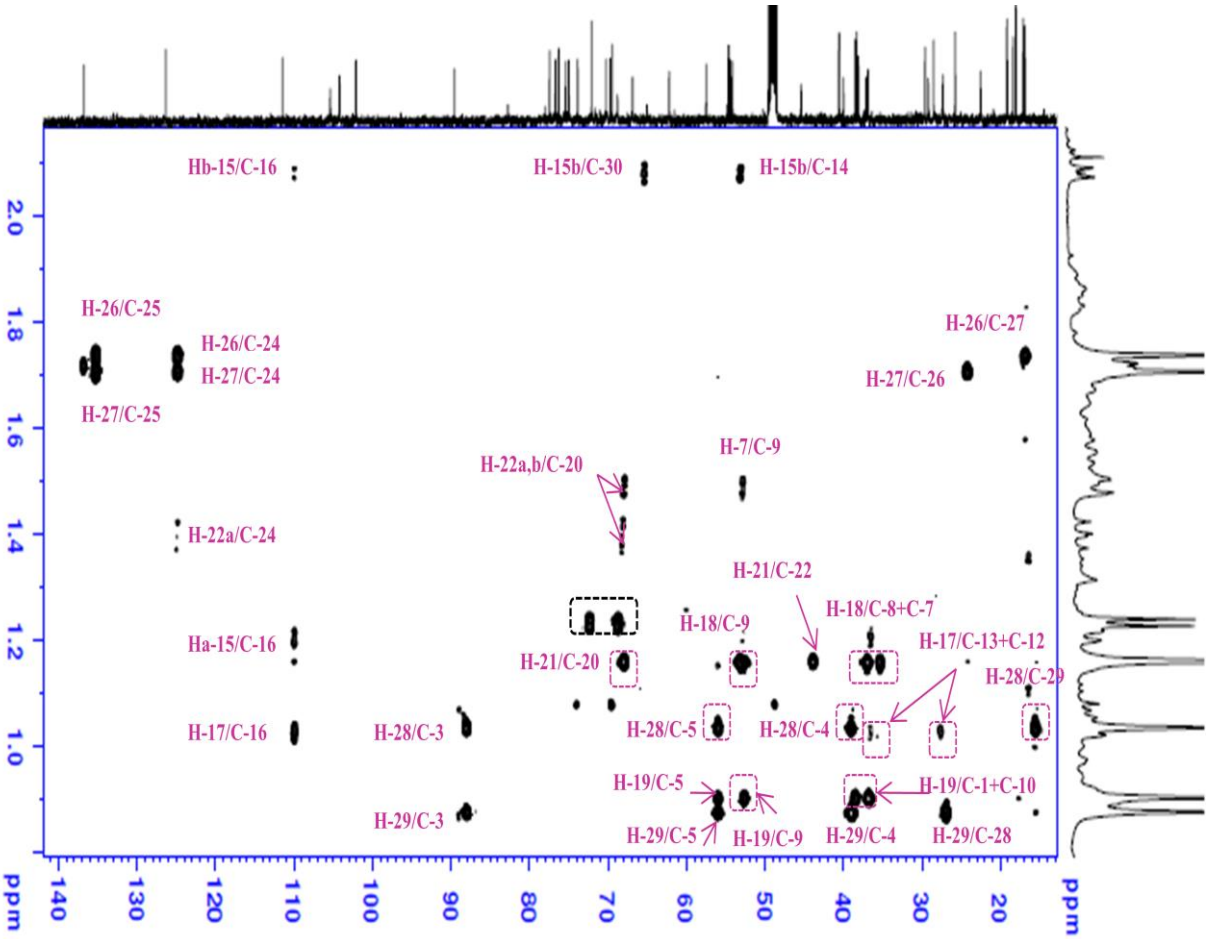


**Figure S27**: HMBC spectrum of compound **13** ($CD_3OD$).