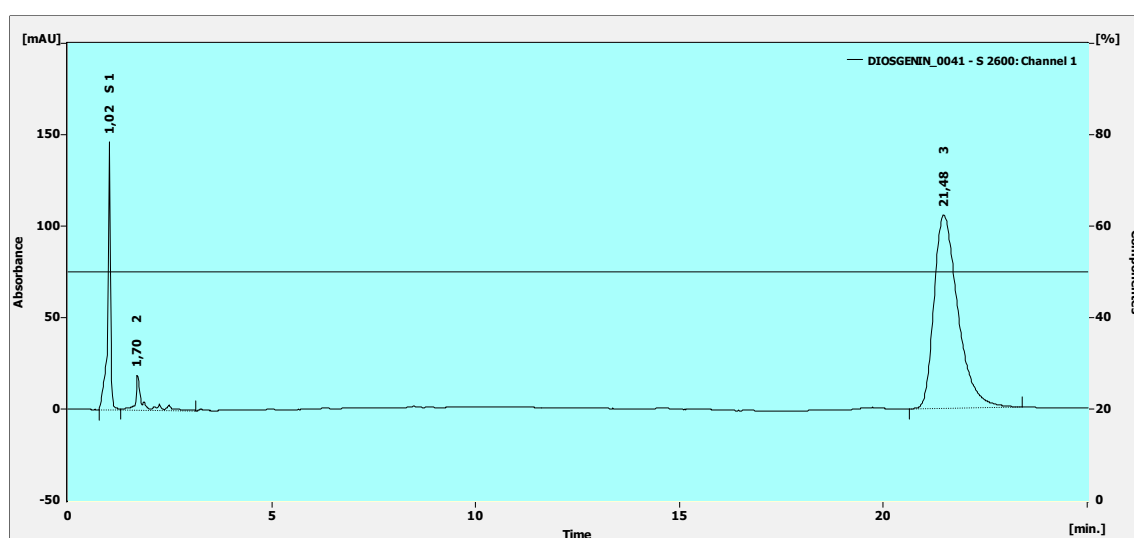
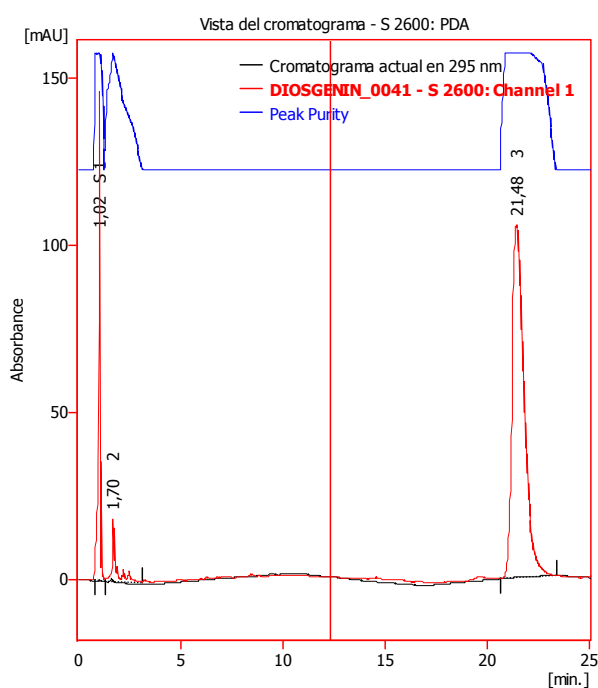


# Supplementary Material: In Vitro Neuroprotective and Anti-Inflammatory Activities of Natural and Semi-Synthetic Spirosteroid Analogues

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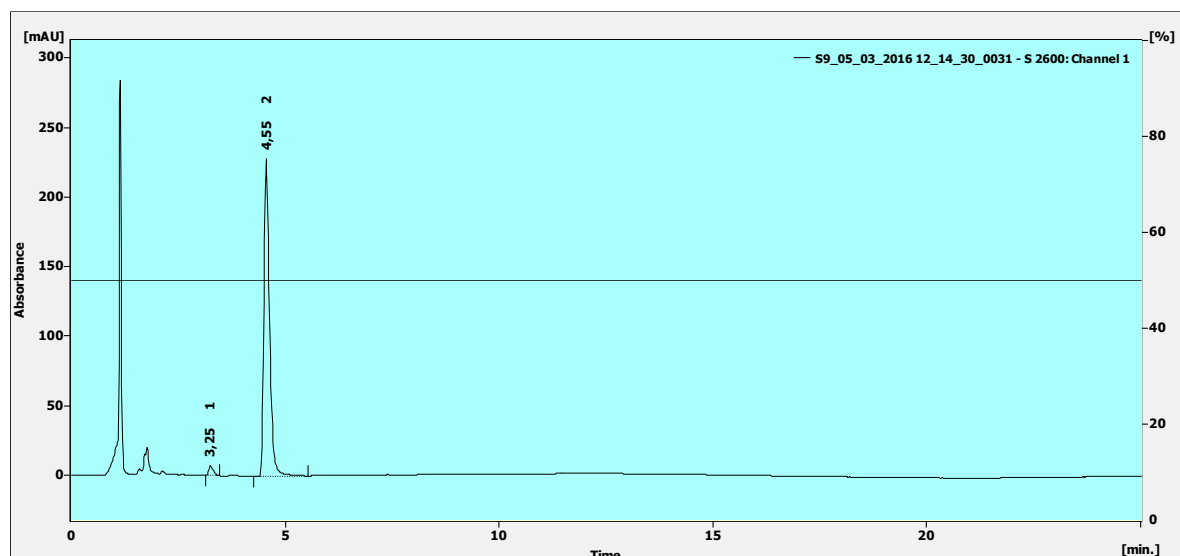


(A)

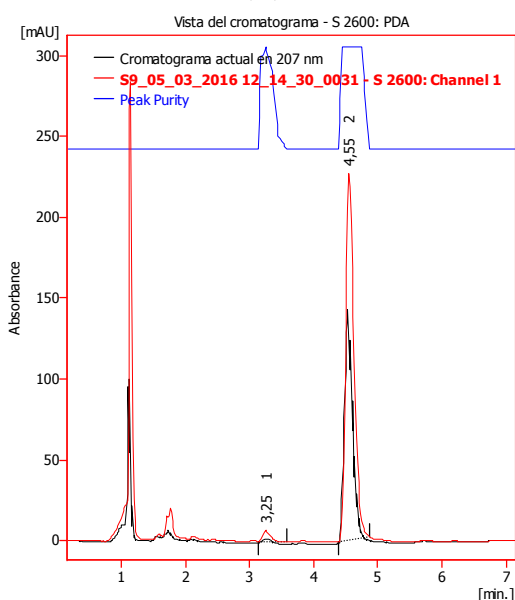


(B)

**Figure S1.** Relative quantification of Diosgenin purity by HPLC. (A) Chromatogram of the HPLC run and (B) HPLC chromatogram with a photodiode array(PDA) analysis of peak purity.

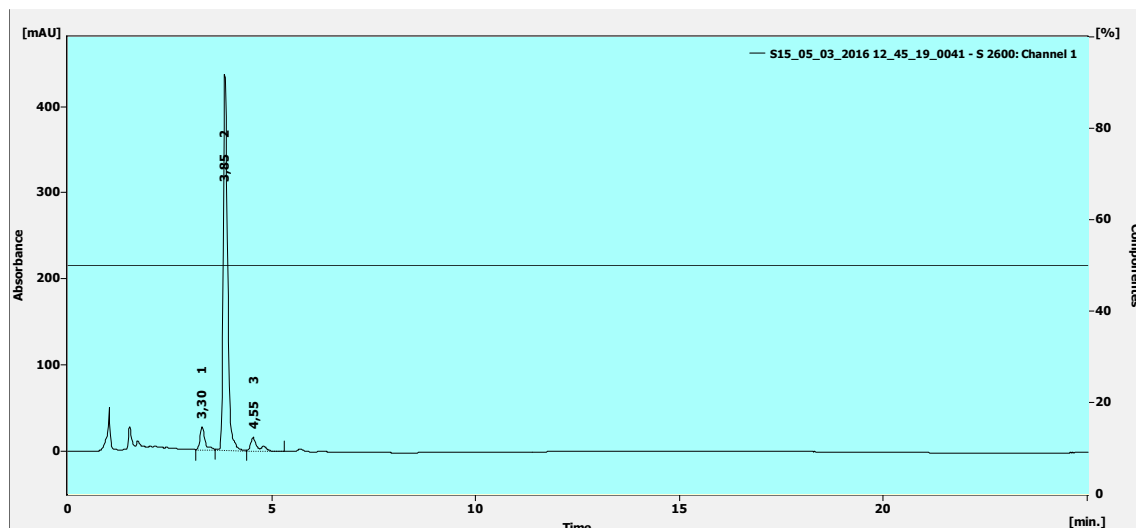


(A)

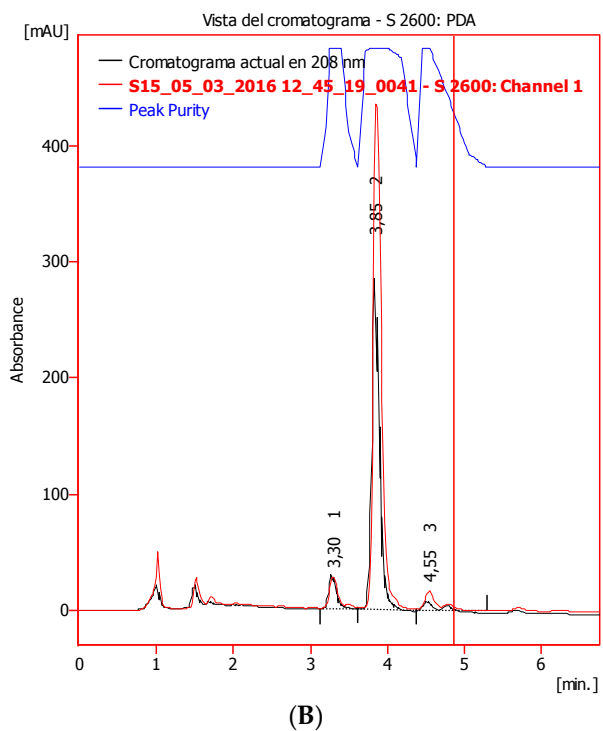


(B)

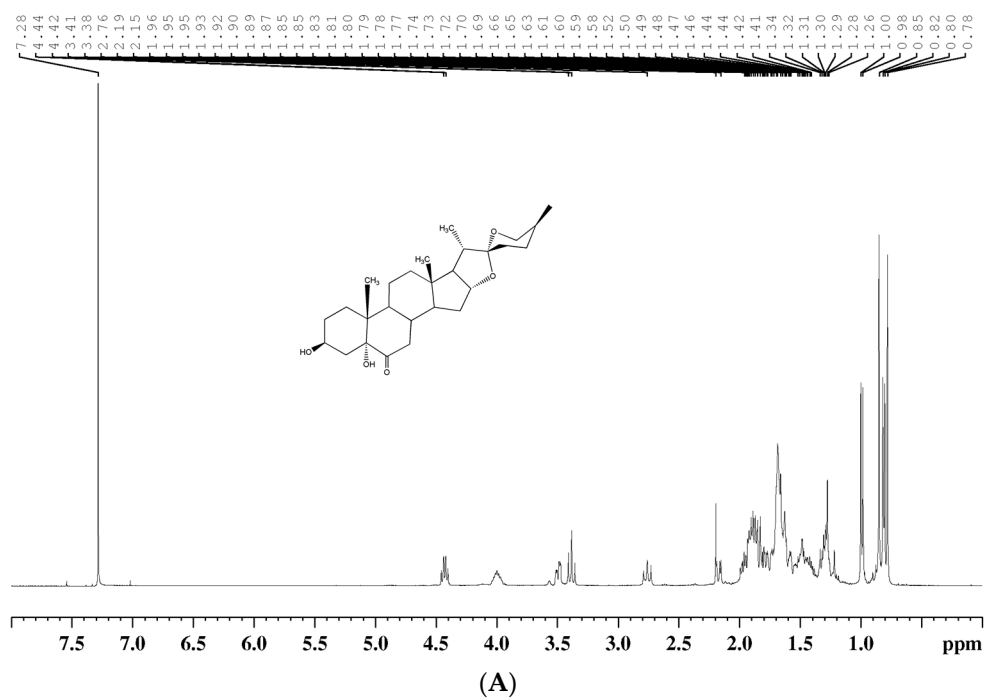
**Figure S2.** Relative quantification of compound S9 purity by HPLC. (A) Chromatogram of the HPLC run and (B) HPLC chromatogram with a photodiode array(PDA) analysis of peak purity.

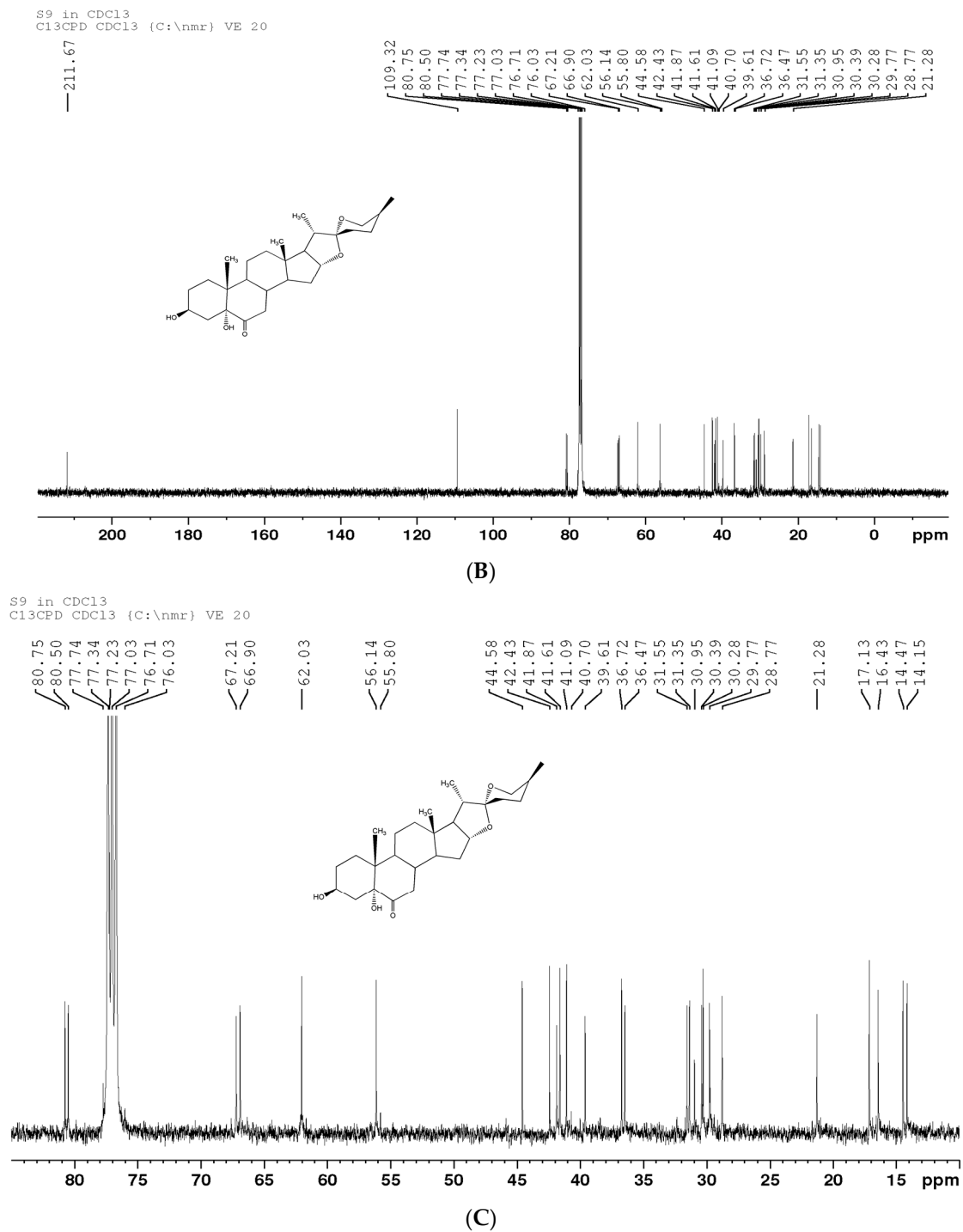


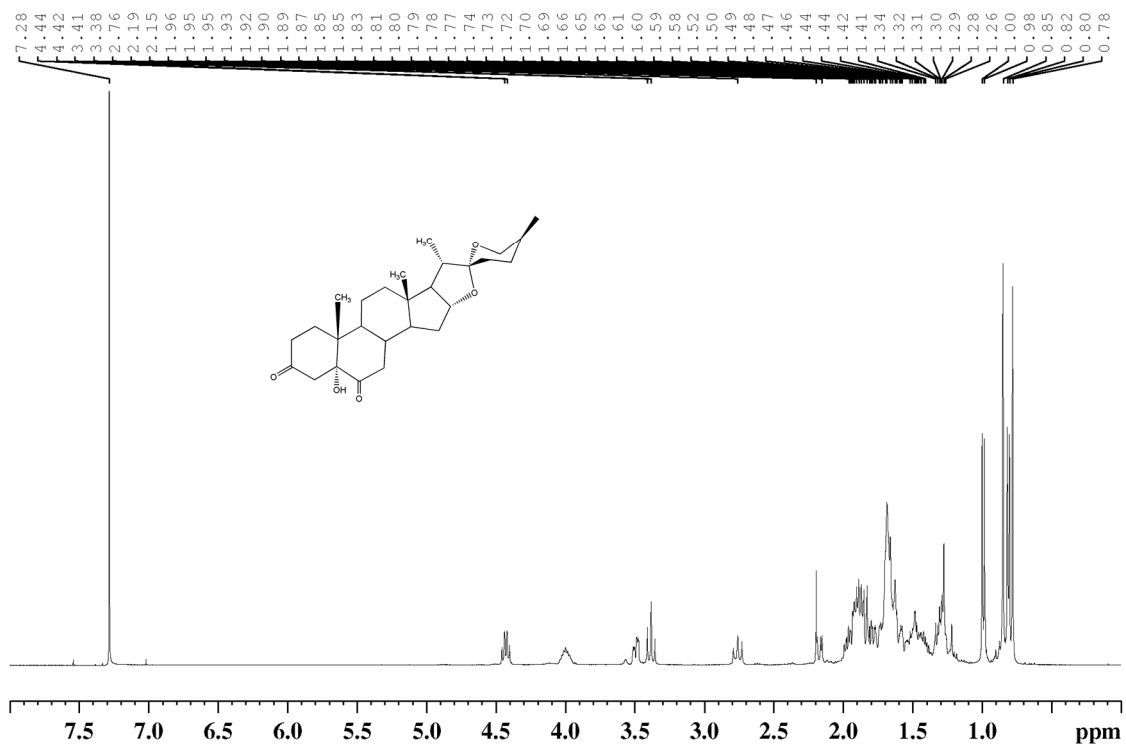
(A)



**Figure S3.** Relative quantification of compound S15 purity by HPLC. (A) Chromatogram of the HPLC run and (B) HPLC chromatogram with a photodiode array(PDA) analysis of peak purity.

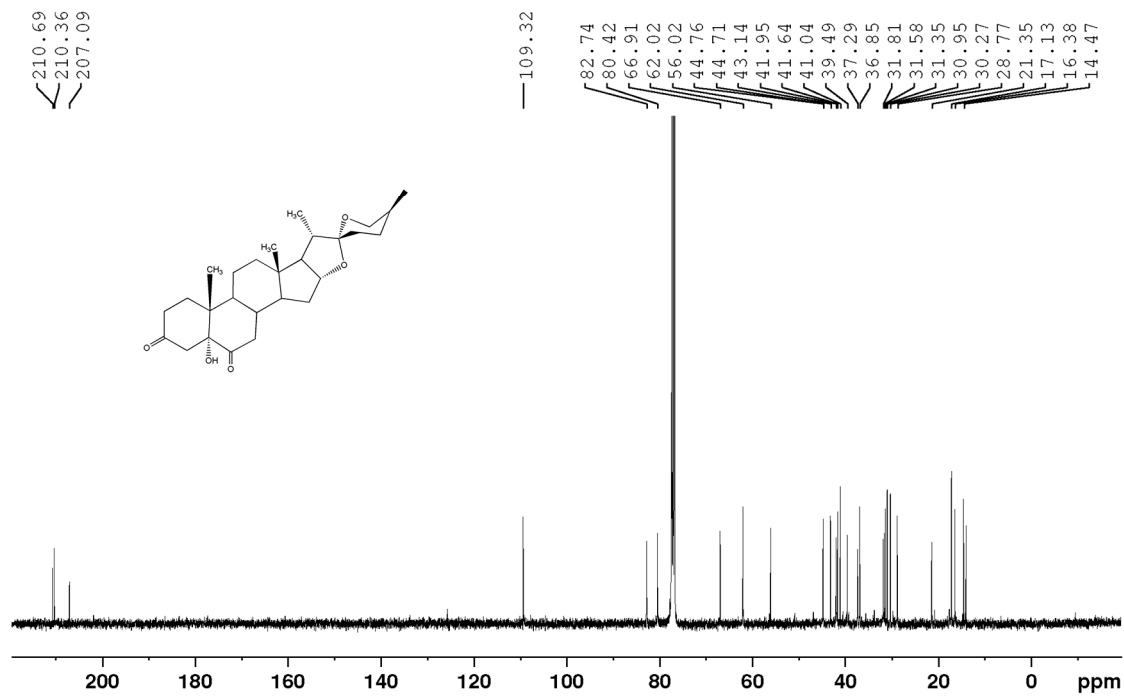






(A)

S10 in CDCl<sub>3</sub>  
C13CPD CDCl<sub>3</sub> (C:\nmr) VE 56



(B)

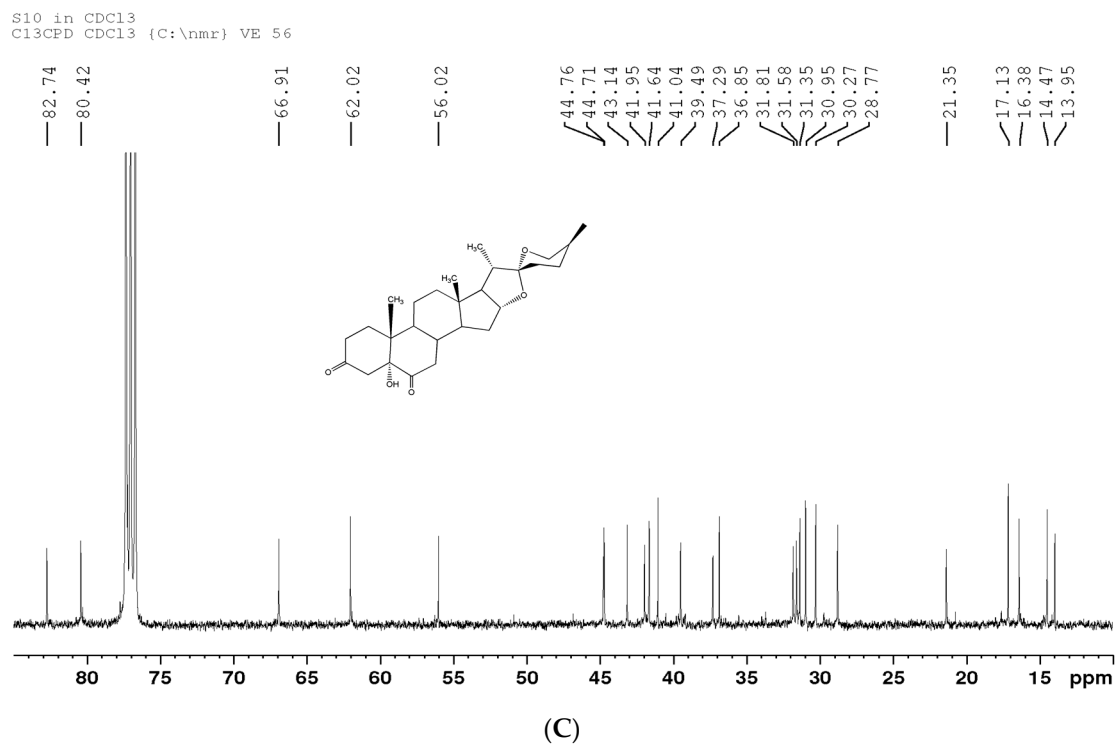


Figure S5. NMR spectroscopic data for compound S15. (A) <sup>1</sup>H-NMR; (B) and (C) <sup>13</sup>C-NMR.