Supplementary data

Isolation of Bioactive compounds from *Calicotome* villosa Stems

Josiane Alhage 1,2, Hoda Elbitar 1,*, Samir Taha 1,3, Jean-Paul Guegan 2, Zeina Dassouki 1, Thomas Vives 2 and Thierry Benvegnu 2,*

- ¹ AZM Centre for Research in Biotechnology and Its Applications, Laboratory of Applied Biotechnology for Biomolecules, Biotherapy and Bioprocess, Lebanese University, El Mitein Street, Tripoli, Lebanon; josiane.alhage@ensc-rennes.fr (J.A.); samirtaha@ul.edu.lb (S.T.); zeina_dassouki@hotmail.com (Z.D.)
- ² ENSCR, CNRS, ISCR (Institut des Sciences Chimiques de Rennes)–UMR 6226, Univ Rennes, 35000 Rennes, France; jean-paul.guegan@ensc-rennes.fr (J.-P.G.); thomas.vives@ensc-rennes.fr (T.V.)
- ³ Faculty of Public Health, Rafic Hariri Campus, Lebanese University, Hadath, Beyrouth, Lebanon
- * Correspondence: elbitarhoda@yahoo.fr (H.E.); thierry.benvegnu@ensc-rennes.fr (T.B.); Tel.: +961-3-522-303 (H.E.); +33-223-238-060 (T.B.);

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Figure S16: ^{1H-13C} HMBC spectrum of compound **5** in CD3OD

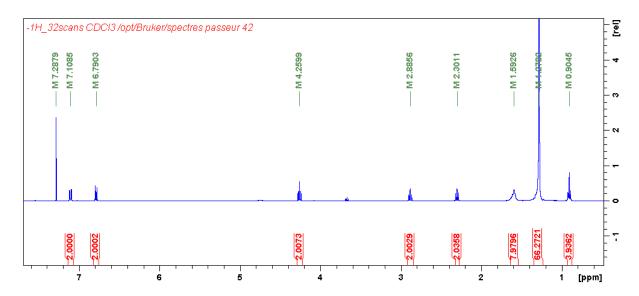


Figure S1: ¹H-NMR spectrum of compound 1 in CDCl₃, 25°C at 400.13 MHz

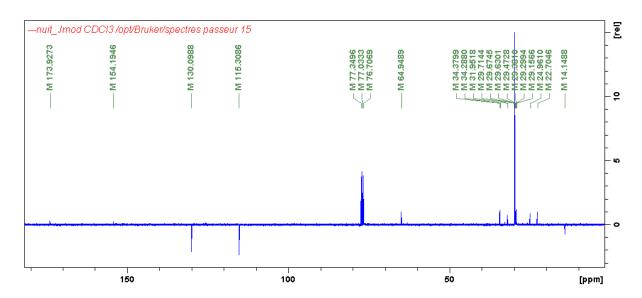


Figure S2: ¹³C-Jmod - NMR spectrum of compound 1 in CDCl₃, 25°C at 100.13 MHz

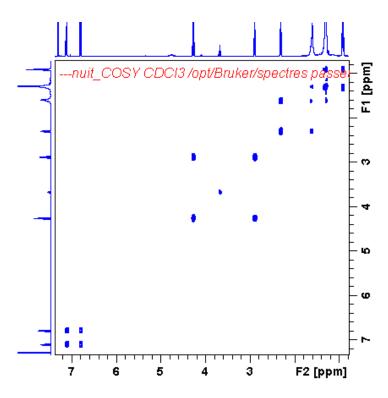


Figure S3: ¹H-¹H COSY spectrum of compound 1 in CDCl₃, 25°C at 400.13 MHz

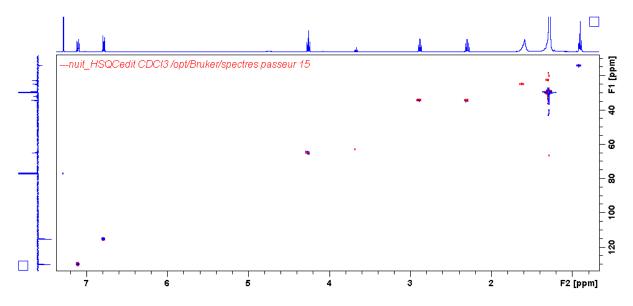


Figure S4: $^1\text{H}-^{13}\text{C}$ HSQC spectrum of compound **1** in CDCl₃, 25°C at 400.13 MHz for ^1H

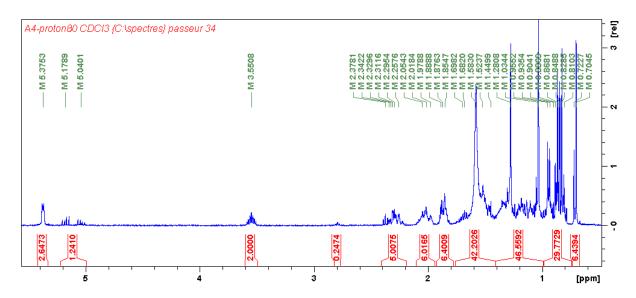


Figure S5: ¹H-NMR spectrum of compound 2 in CDCl₃, 25°C at 400.13 MHz

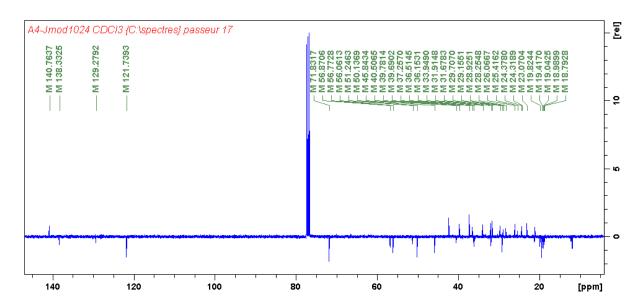


Figure S6: 13C-Jmod - NMR spectrum of compound 2 in CDCl₃, 25°C at 100.13 MHz

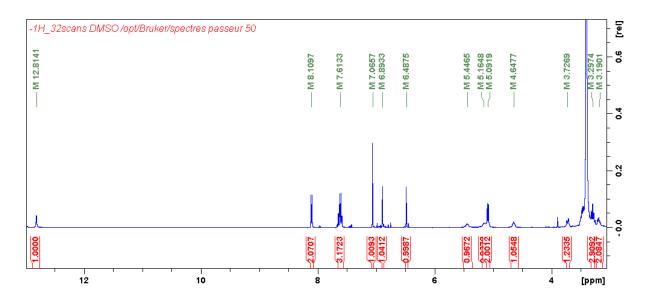


Figure S7: ¹H-NMR spectrum of compound 3 in DMSO, 25°C at 400.13 MHz

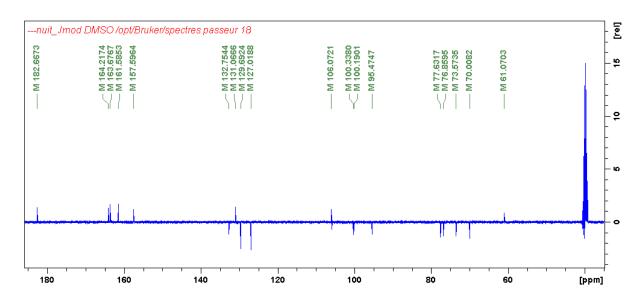


Figure S8: ¹³C-Jmod - NMR spectrum of compound 3 in DMSO, 25°C at 100.13 MHz

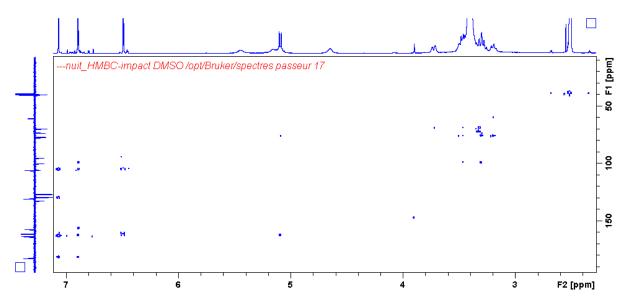


Figure S9: ^{1}H - ^{13}C HMBC spectrum of compound **3** in DMSO, 25°C at 400.13 MHz for ^{1}H

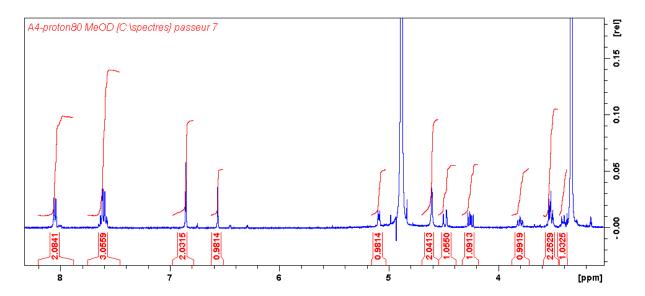


Figure S10: ¹H-NMR spectrum of compound 4 in CD₃OD, 25°C at 400.13 MHz

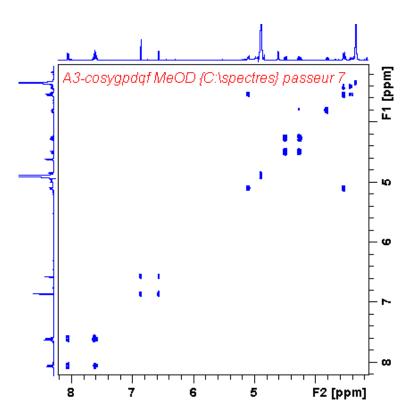


Figure S11: ¹H-¹H COSY spectrum of compound 4 in CD₃OD, 25°C at 400.13 MHz

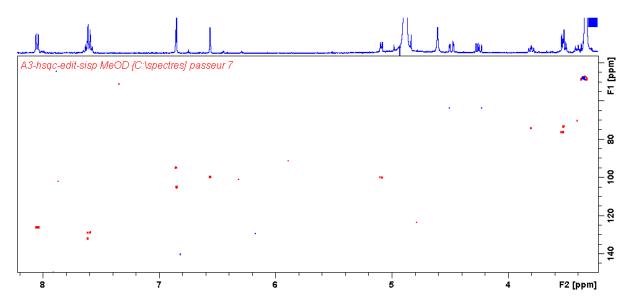


Figure S12: 1 H- 13 C HSQC spectrum of compound **4** in CD $_{3}$ OD, 25°C at 400.13 MHz for 1 H

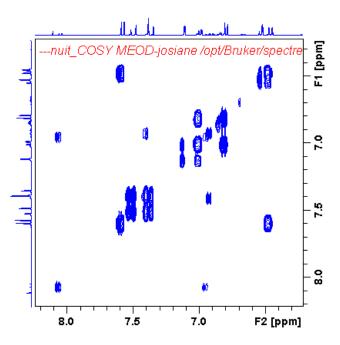


Figure S13: ¹H-¹H COSY spectrum of compound 5 in CD₃OD, 25°C at 400.13 MHz

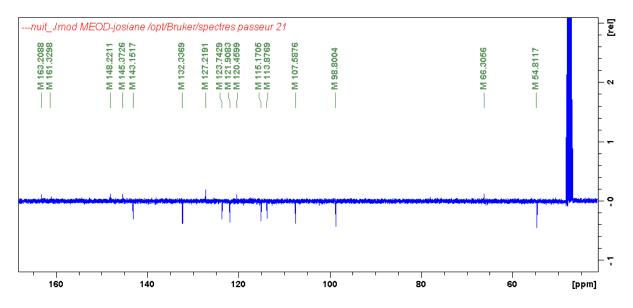


Figure S14: 13 C-Jmod - NMR spectrum of compound **5** in CD₃OD, 25°C at 100.13 MHz

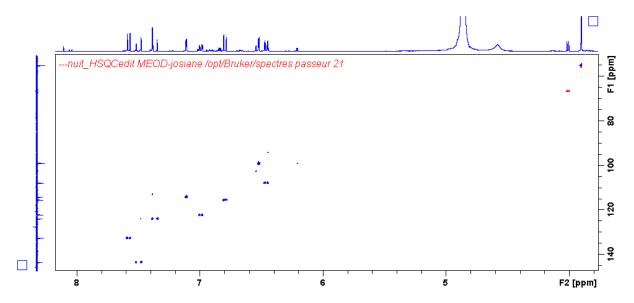


Figure S15: 1 H- 13 C HSQC spectrum of compound **5** in CD₃OD, 25°C at 400.13 MHz for 1 H

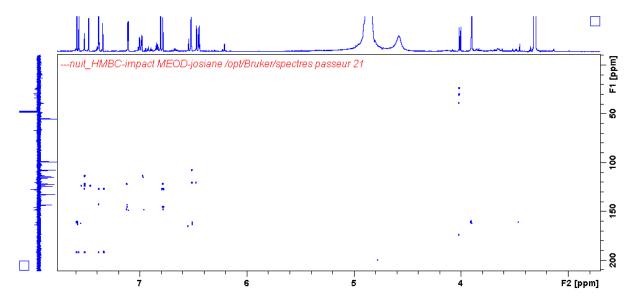


Figure S16: 1 H- 13 C HMBC spectrum of compound **5** in CD₃OD, 25°C at 400.13 MHz for 1 H