Supplementary Information

- Figure S1. ¹H NMR spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.
- Figure S2. ¹³C NMR spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.
- Figure S3. HMBC spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.
- Figure S4. HMBC spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.
- Figure S5. ¹H NMR spectrum of 7β-Chloro-8α-hydroxy-12-acetoxy-deepoxysarcophine (2) in CDCl₃.
- **Figure S6.** ¹³C NMR spectrum of 7β-Chloro-8α-hydroxy-12-acetoxy-deepoxysarcophine (**2**) in CDCl₃.
- Figure S7. HMQC spectrum of 7β-Chloro-8α-hydroxy-12-acetoxy-deepoxysarcophine (2) in CDCl₃.
- **Figure S8.** HMBC spectrum of 7β -Chloro- 8α -hydroxy-12-acetoxy-deepoxysarcophine (2) in CDC13.
- **Figure S9.** ¹H NMR spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (3) in CDCl₃.
- **Figure S10.** ¹³C NMR spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (**3**) in CDCl₃.
- **Figure S11.** HMQC spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (**3**) in CDCl₃.
- **Figure S12.** HMBC spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (**3**) in CDCl₃.

Figure S1. ¹H NMR spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.

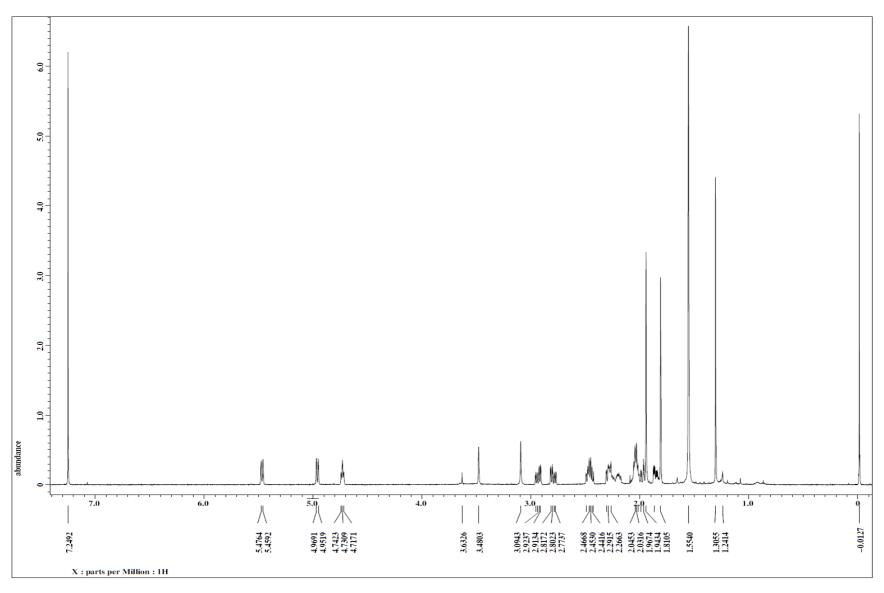
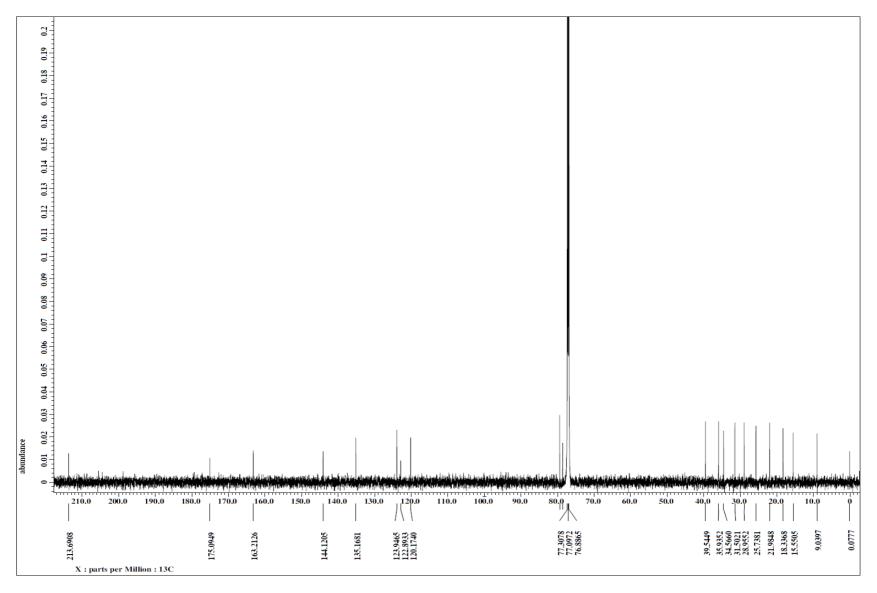
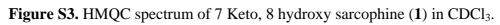
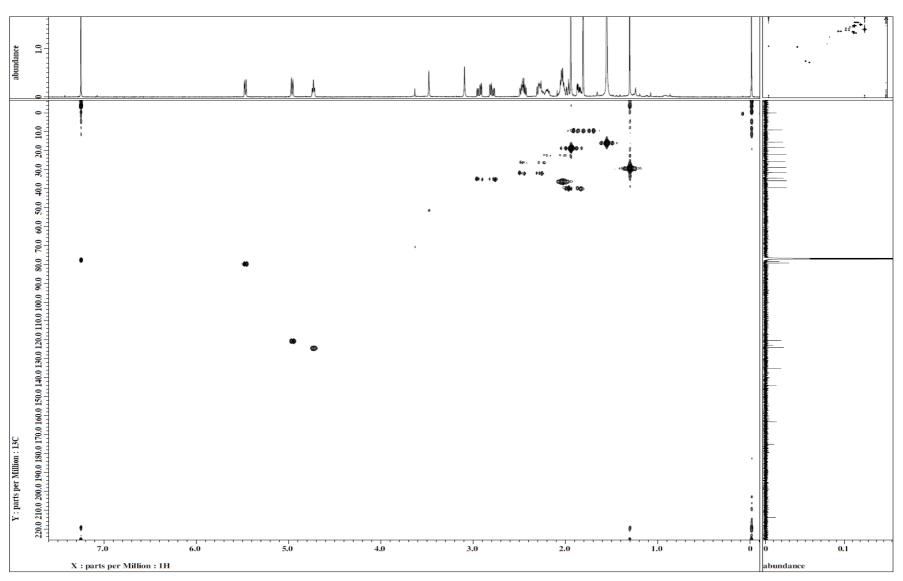
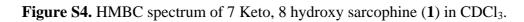


Figure S2. ¹³C NMR spectrum of 7 Keto, 8 hydroxy sarcophine (1) in CDCl₃.









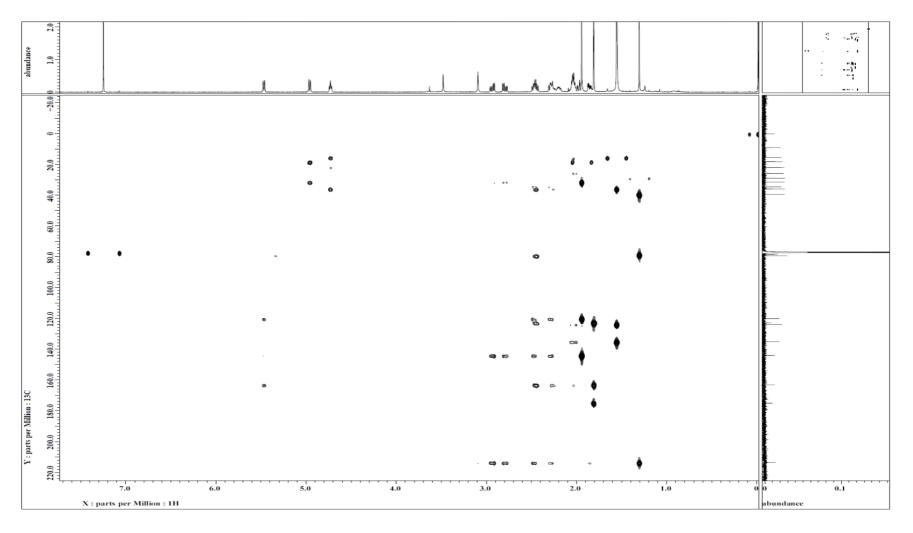


Figure S5. ¹H NMR spectrum of 7β-Chloro-8α-hydroxy-12-acetoxy-deepoxysarcophine (**2**) in CDCl₃.

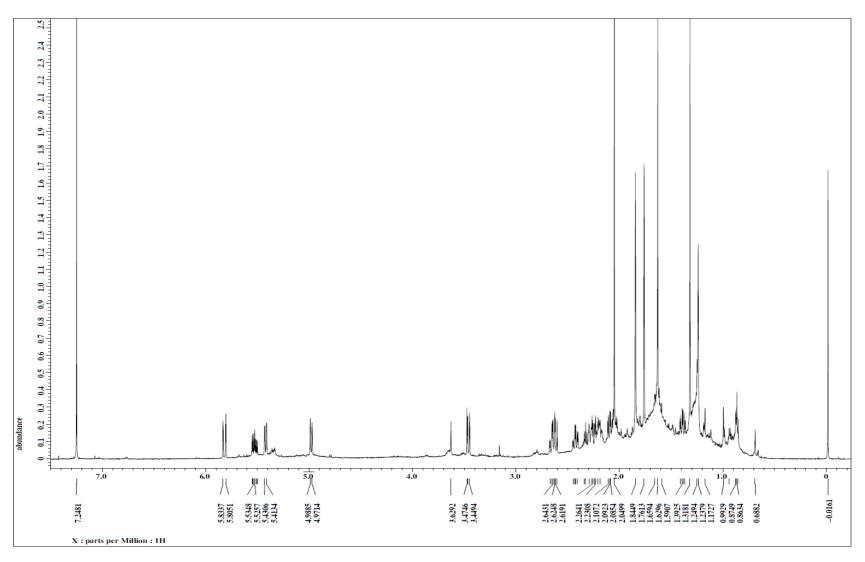
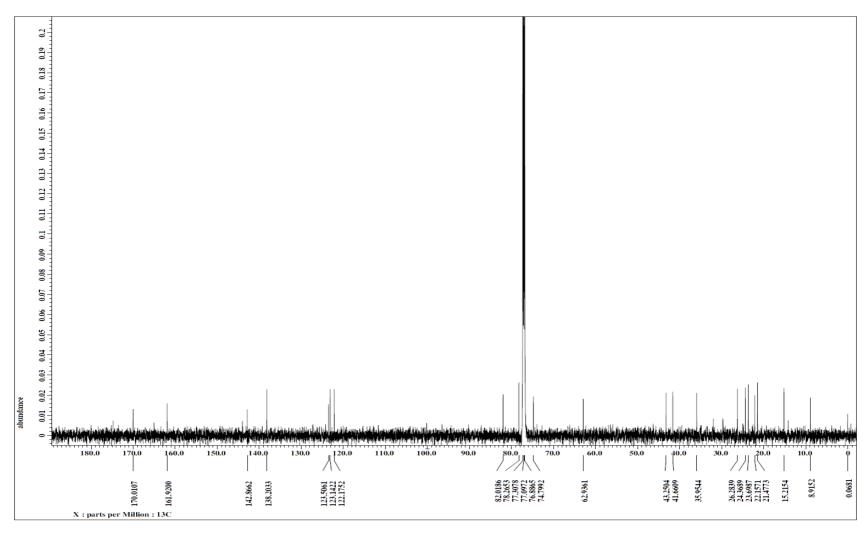
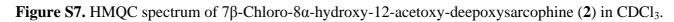
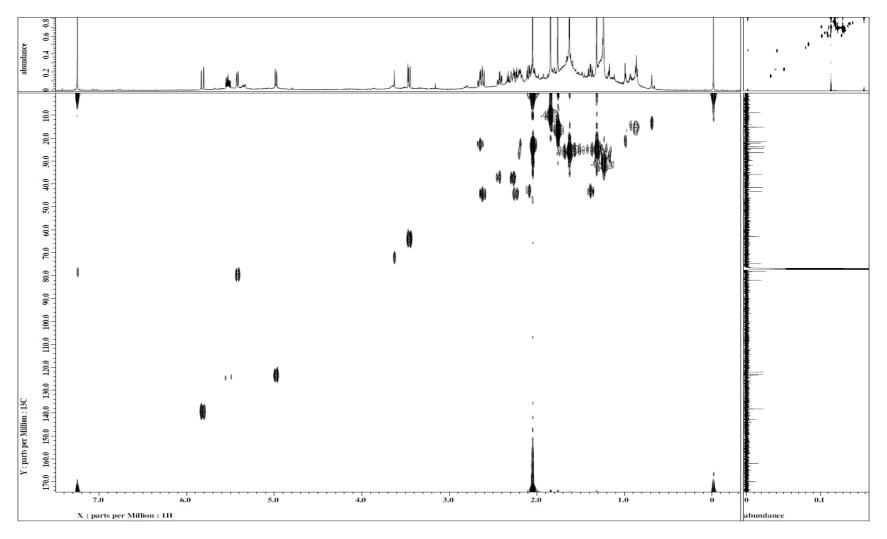
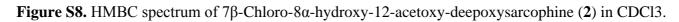


Figure S6. ¹³C NMR spectrum of 7β-Chloro-8α-hydroxy-12-acetoxy-deepoxysarcophine (**2**) in CDCl₃.









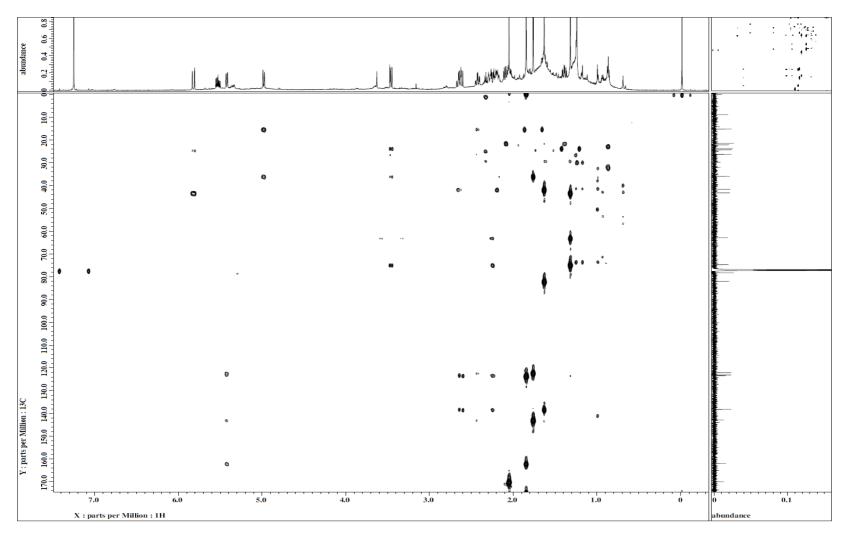
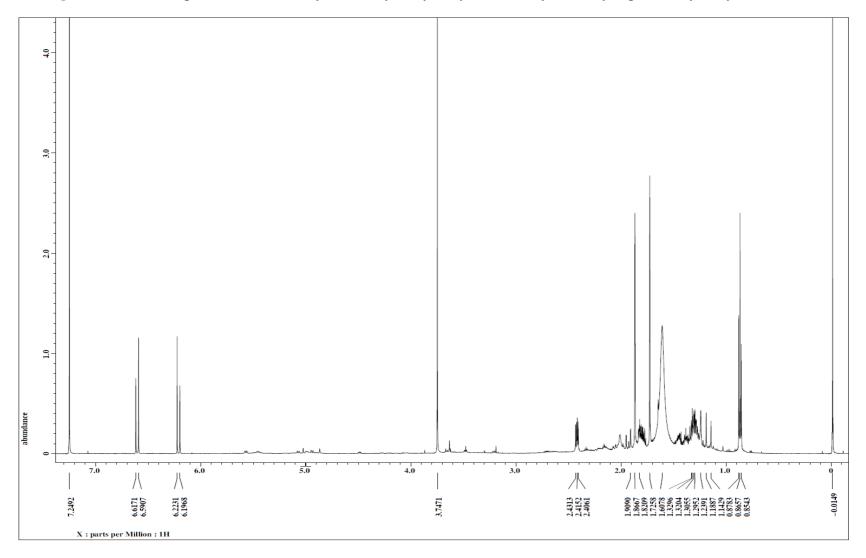


Figure S9. ¹H NMR spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (**3**) in CDCl₃.



 $\textbf{Figure S10.} \ ^{13}\text{C NMR spectrum of } \textit{(E)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)} acrylate \ \textbf{(3)} \ in \ CDCl_{3}.$

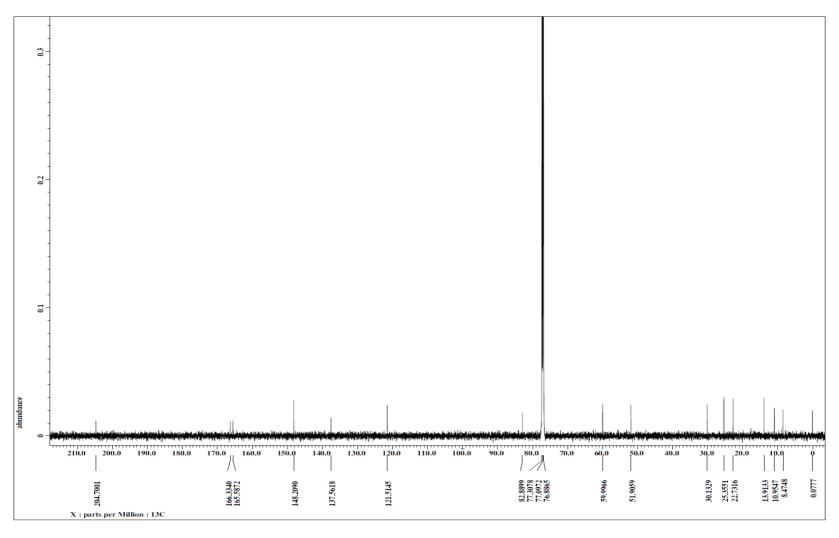
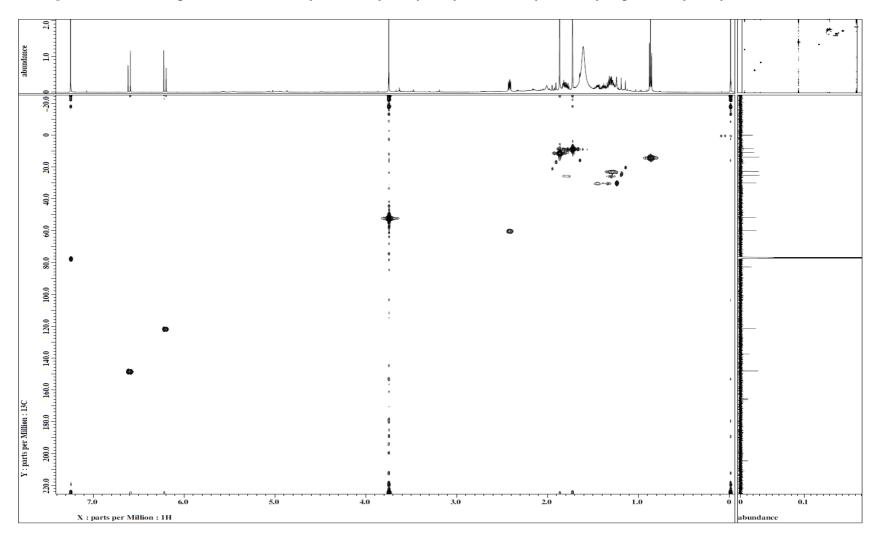
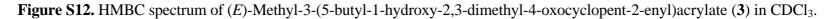
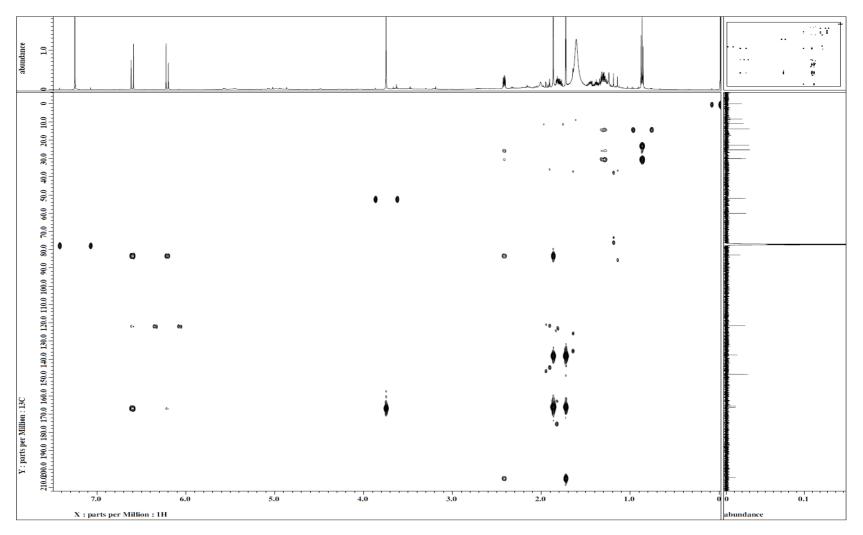


Figure S11. HMQC spectrum of (*E*)-Methyl-3-(5-butyl-1-hydroxy-2,3-dimethyl-4-oxocyclopent-2-enyl)acrylate (**3**) in CDCl₃.







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