

Supporting Information

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Aromatic Rosane-type Diterpenoid with Lipase Inhibitory Effect from *Euphorbia ebracteolata* and Chemotaxonomic Significance of Diterpenoids

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1. Iosane-type diterpene containing aromatic ring groups and preparation method and application thereof in antituberculars
Q Quick view PATENTPAC
By Wang, Chao; Ma, Xiaochi; Ma, Yufang; Yan, Qulong; Huo, Xiaokui
From Faming Zhaanli Shengqing (2019), CN 109456149 A 20190312. | Language: Chinese, Database: CAPLUS

100
80
60
40
20
0
0 10 20 30 40 50 60 70 80 90 100
R¹/R² (μg/mL)

The invention provides a compd. of iosane-type diterpene contg. arom. ring groups as shown in formula I, R¹ to R⁵ are resp. hydrogen atom, hydroxyl, halogen atom, methoxy, or amino, etc. The inventive compd. has inhibition activity against Mycobacterium tuberculosis, esp. acetyl transfer functional protein GlnI of Mycobacterium tuberculosis, and can be applied to prep. antitubercular drugs.

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1. 2363030-71-3

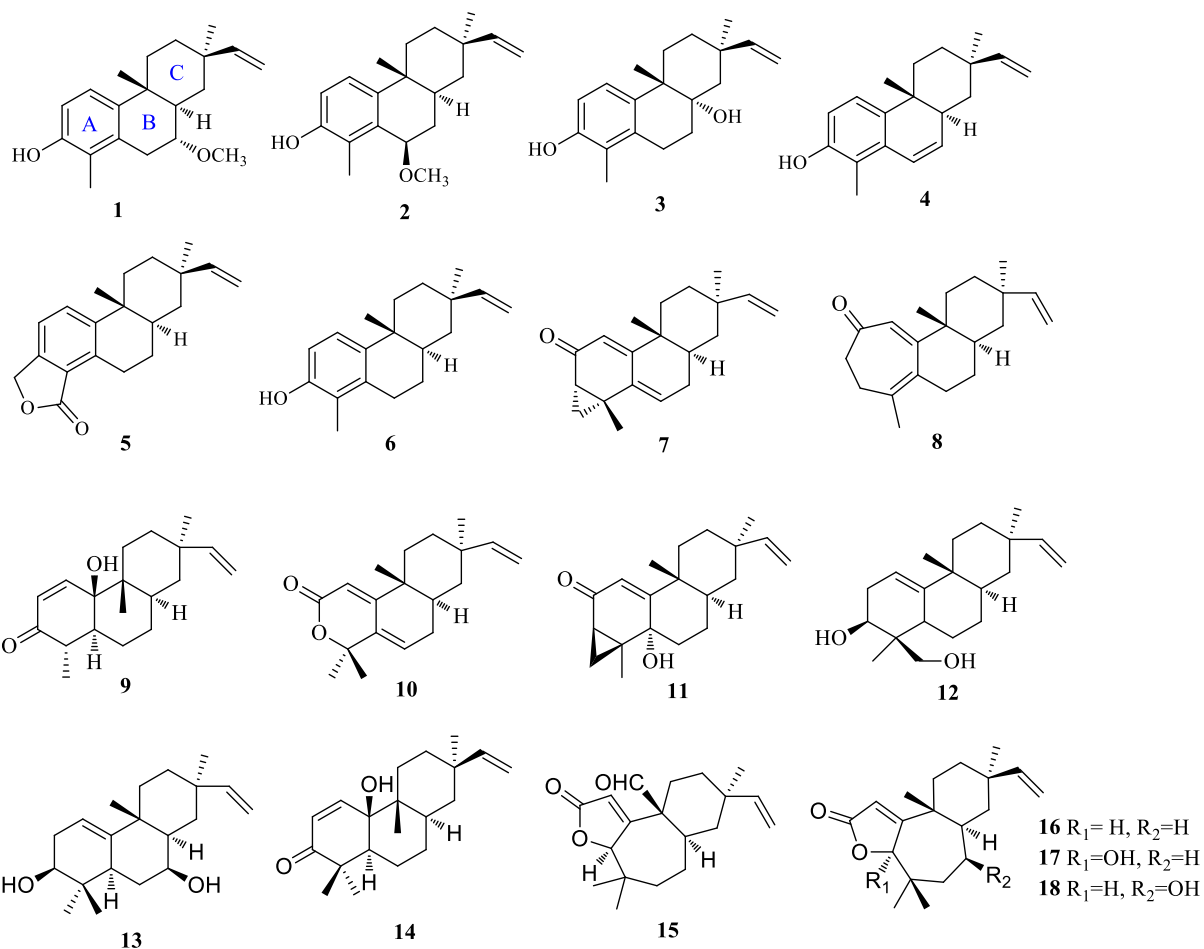
2363030-71-3

Absolute stereochemistry.

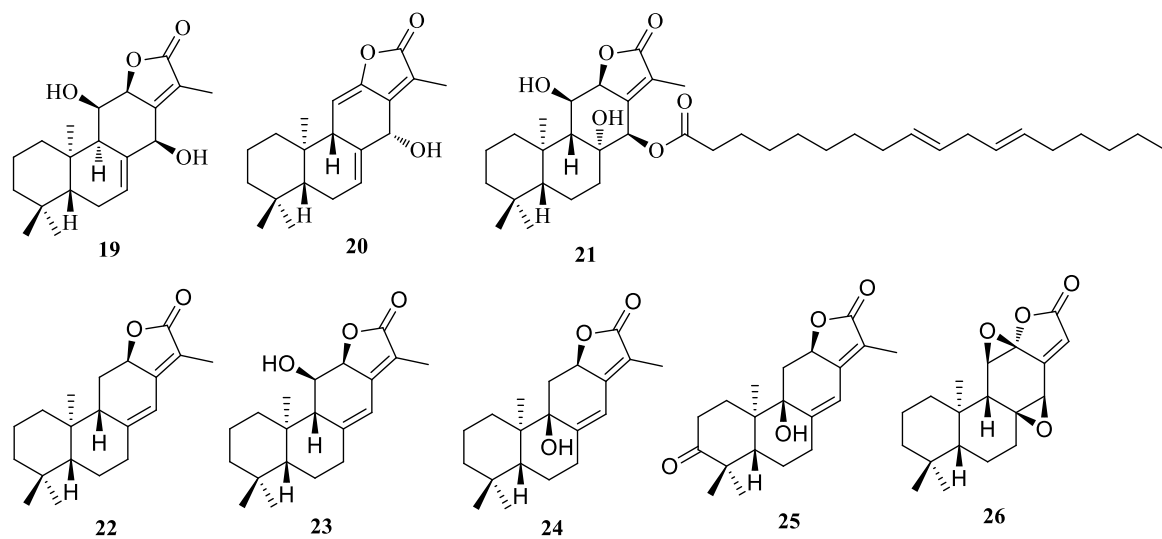
C₂₈H₃₈O₂
2-Phenanthrenol, 7-ethenyl-4b,5,6,7,8,9a,10-octahydro-9-methoxy-1,4b,7-trimethyl-, (4bR,7R,8aR,9aR)-
Key Physical Properties

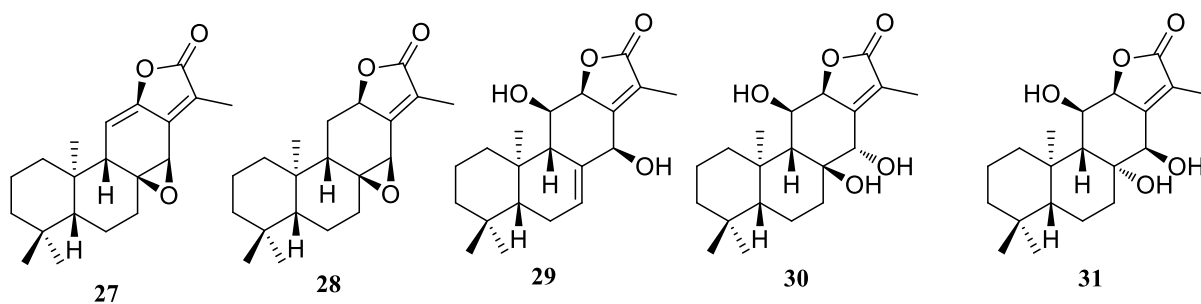
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Figure S1: Scifinder report for compound 1

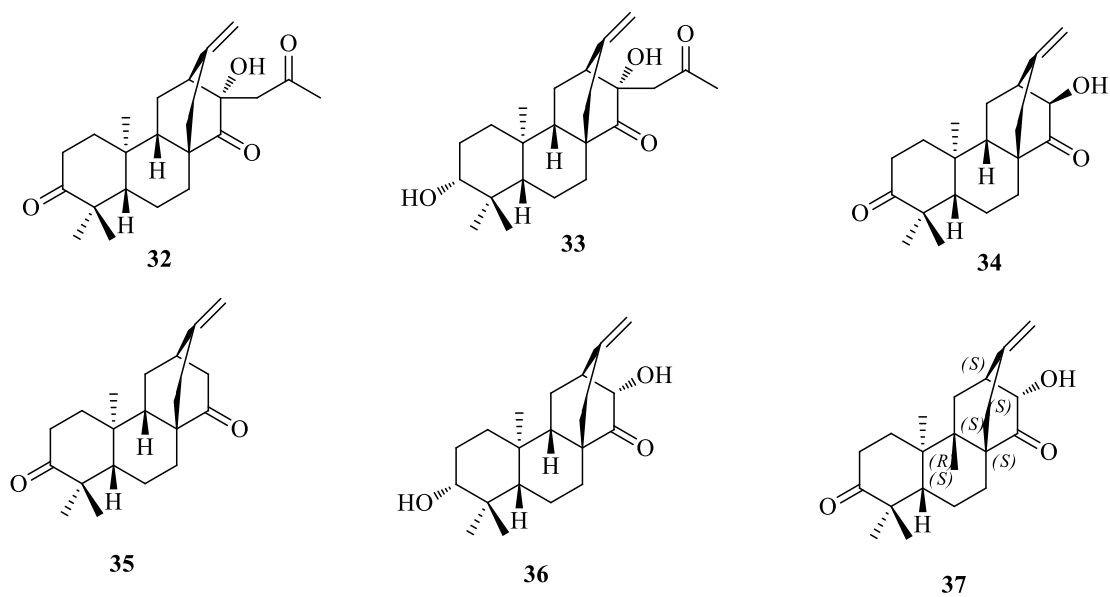


Rosane-type diterpenoids (1-18)





Abietane-type diterpenoids (19-31)



Atisane-type diterpenoids (32-37)

Figure S2 : Diterpenoids from the roots of *Euphorbia ebracteolata*

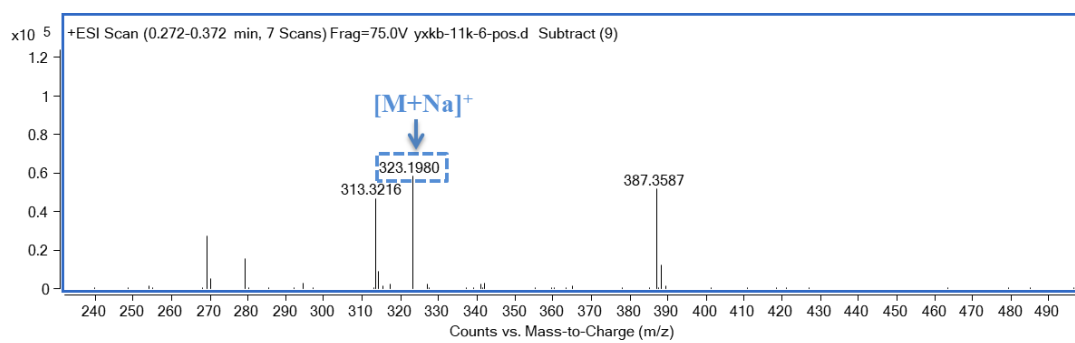


Figure S3 : HR-ESI-MS spectrum of compound **1**

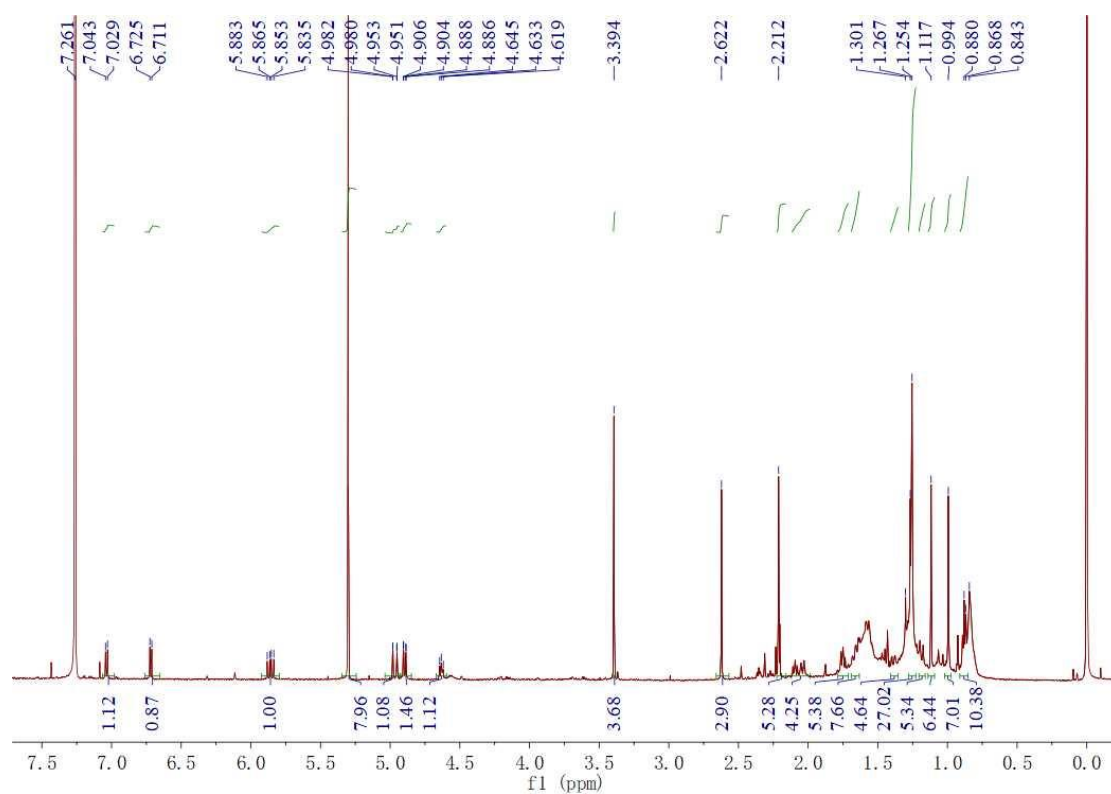


Figure S4: ¹H NMR (CDCl₃, 600 MHz) spectrum of compound **1**

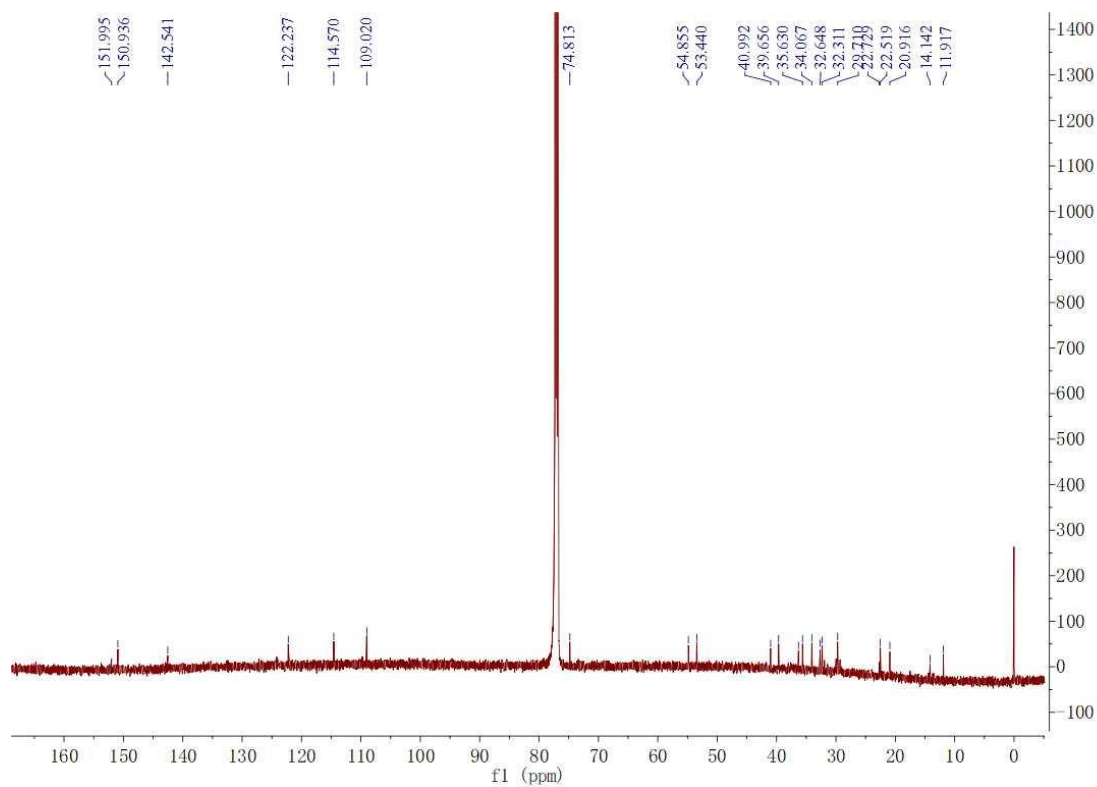
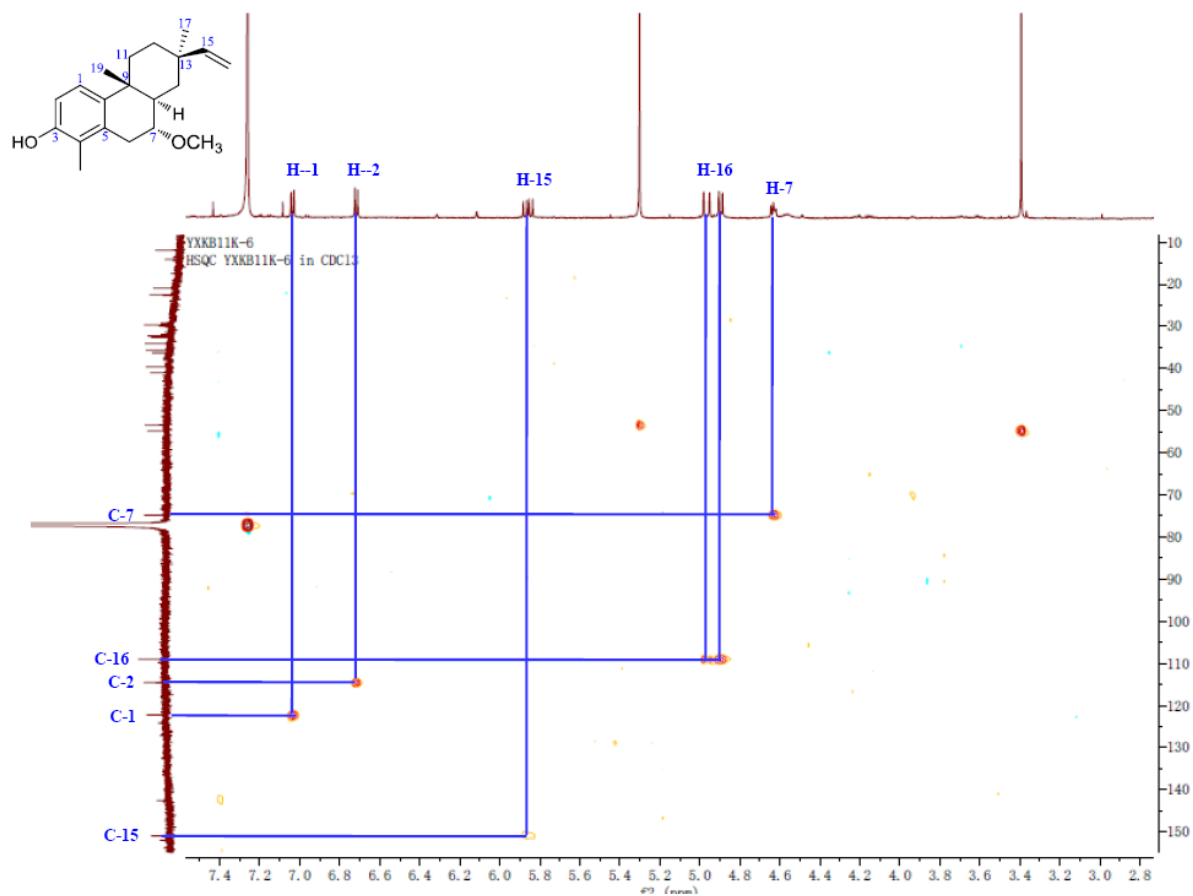
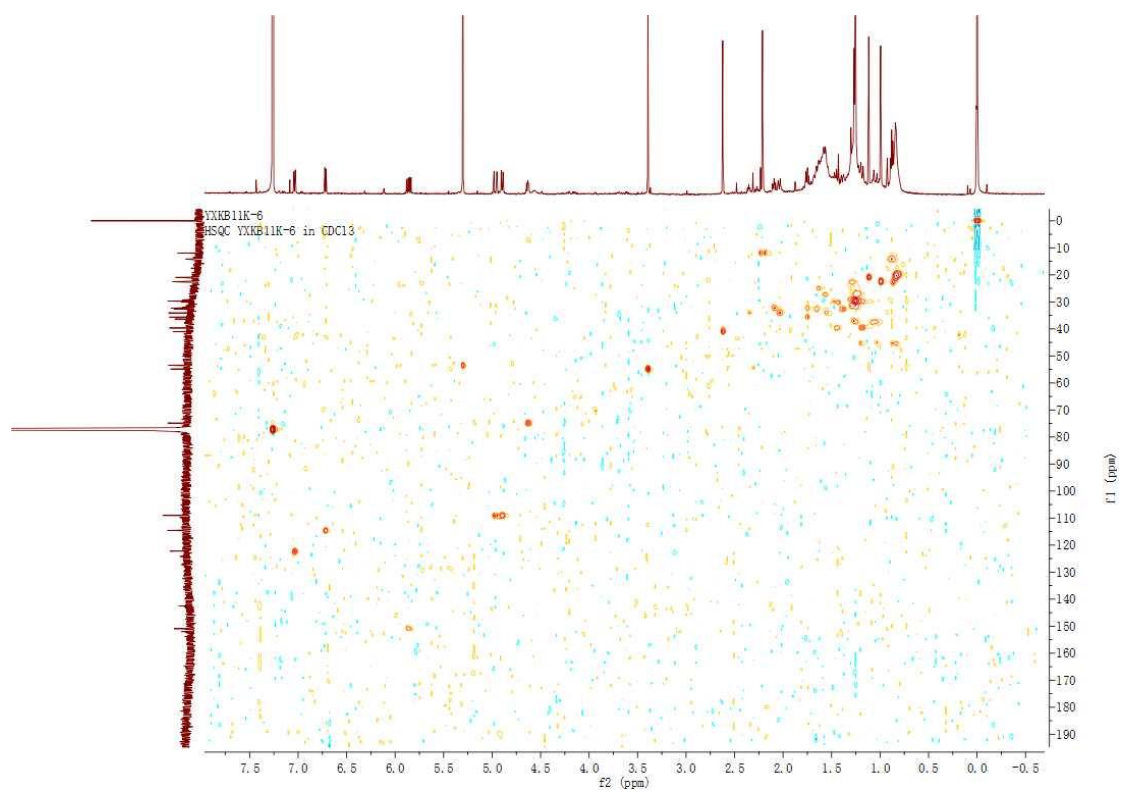


Figure S5 : ¹³C NMR (CDCl₃, 150 MHz) spectrum of compound **1**



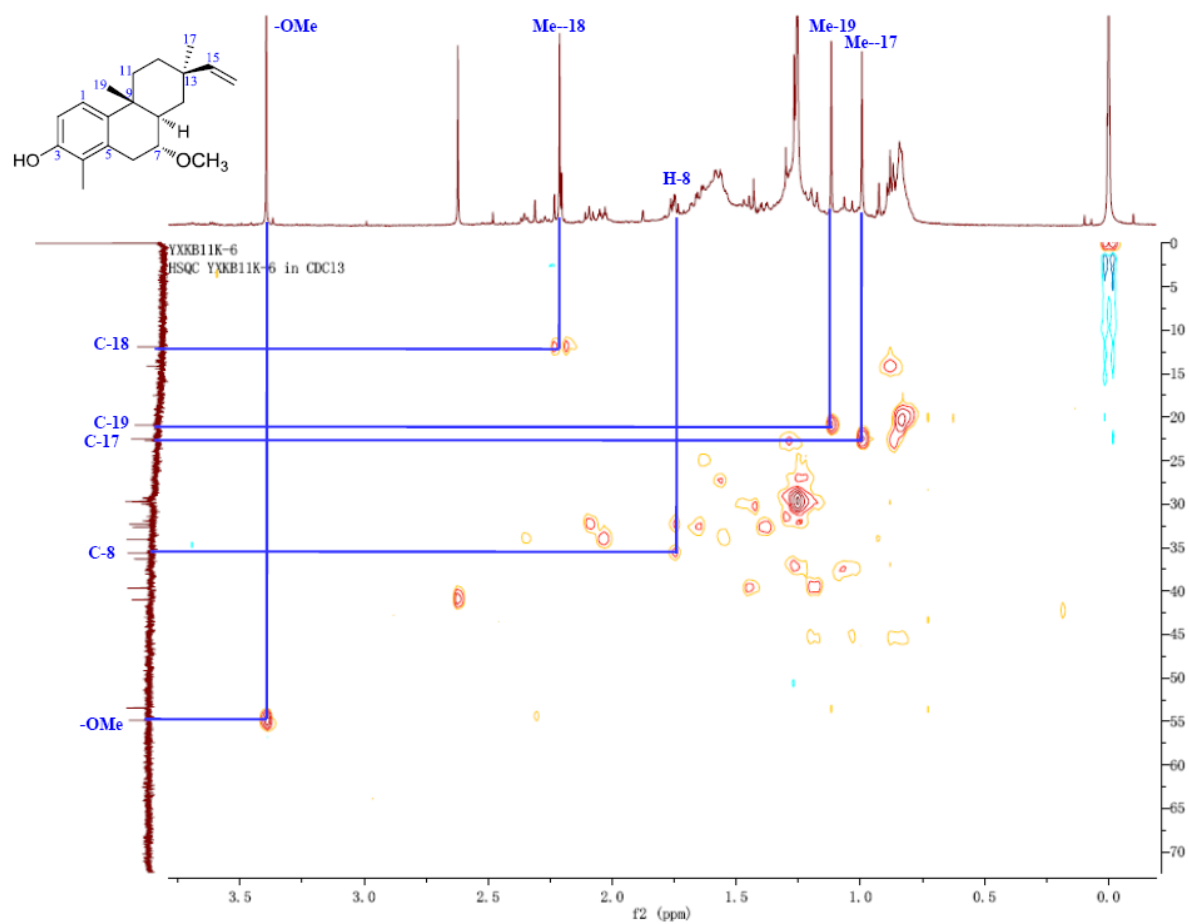
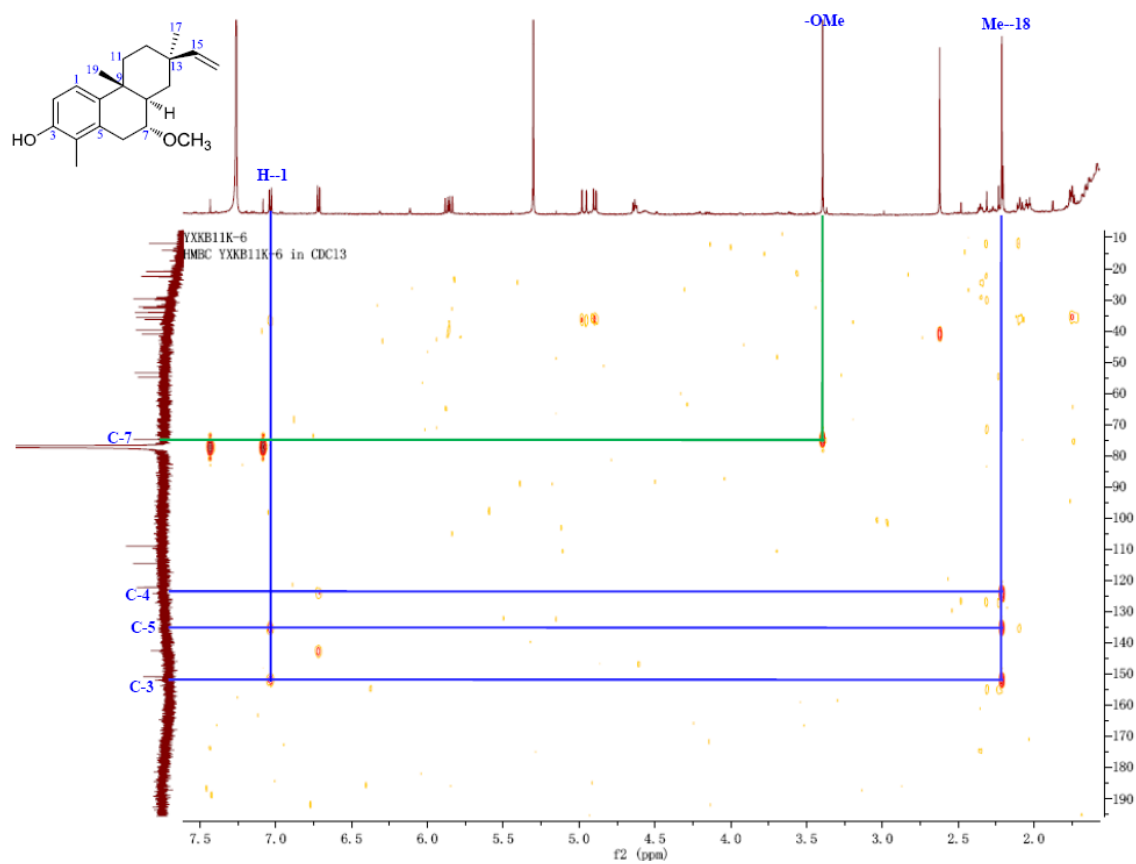
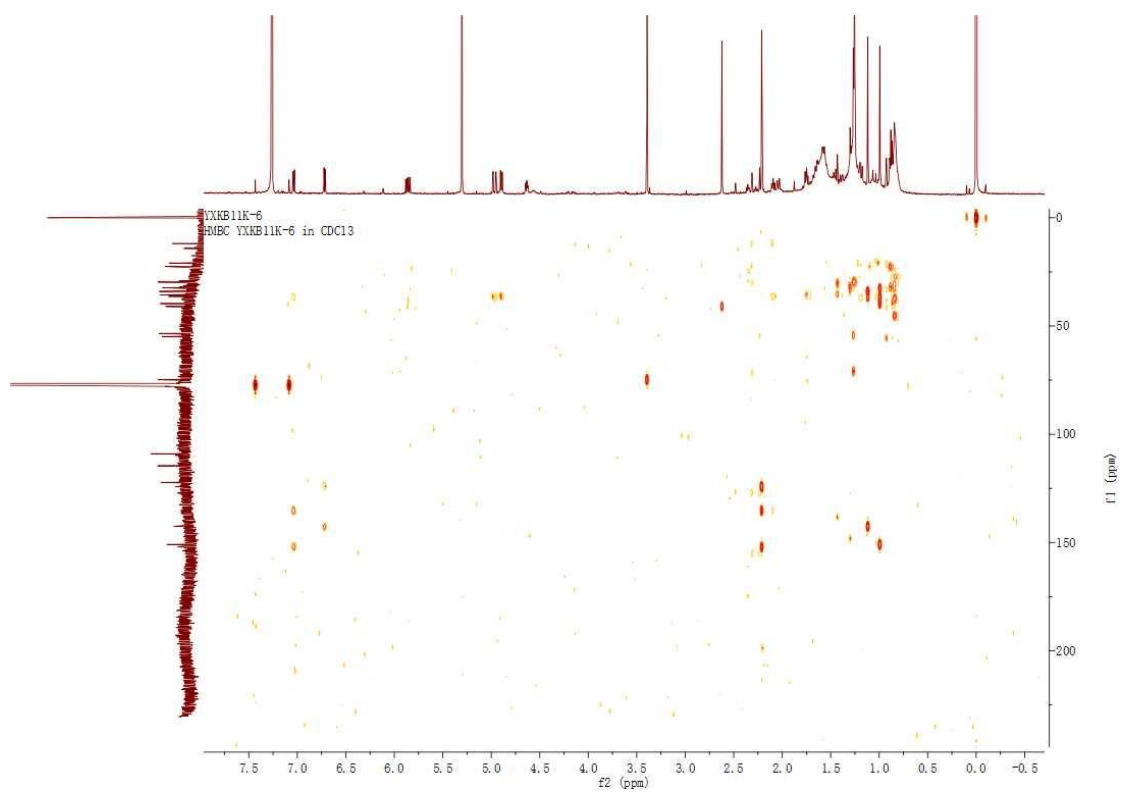


Figure S6: HSQC spectrum of compound 1.



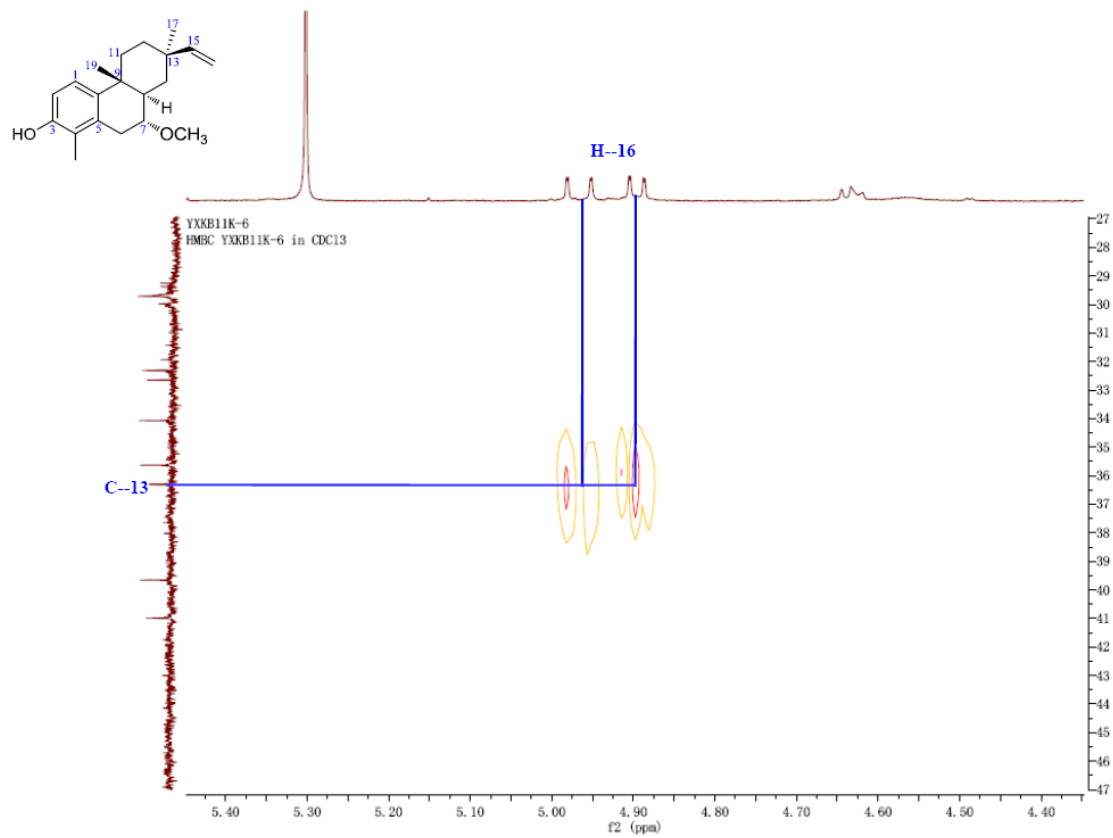
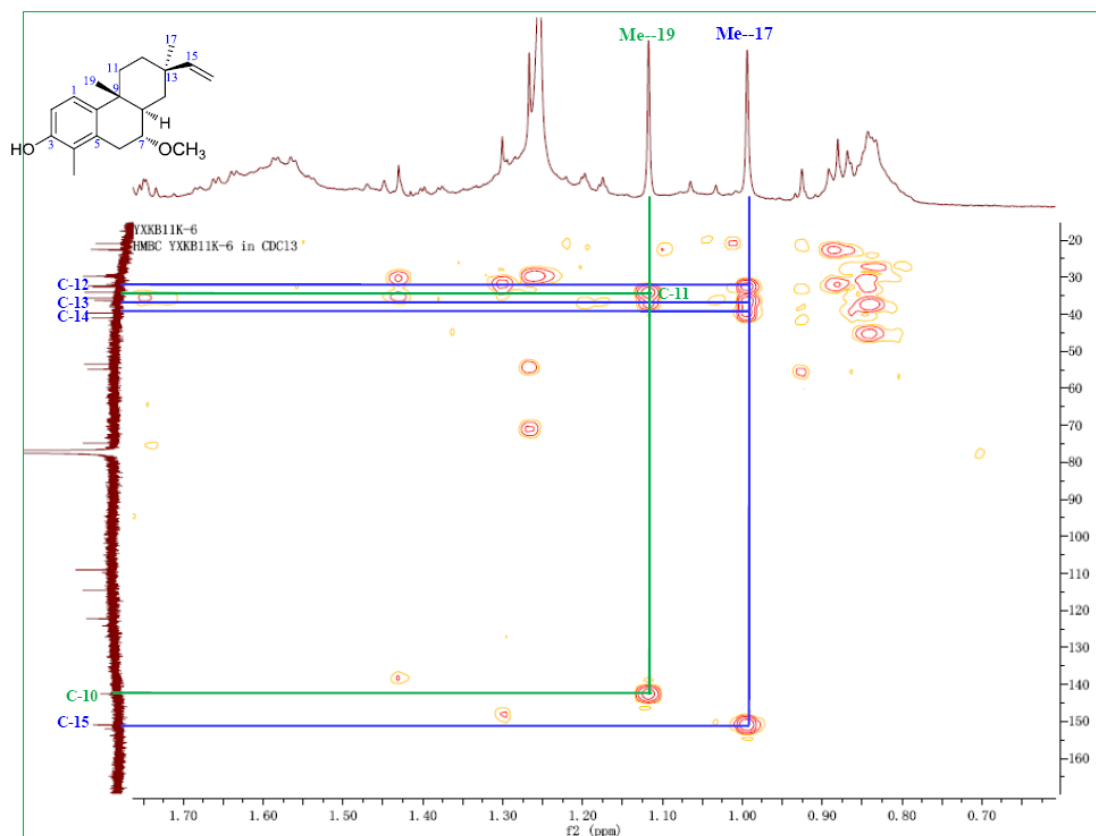


Figure S7: HMBC spectrum of compound 1.

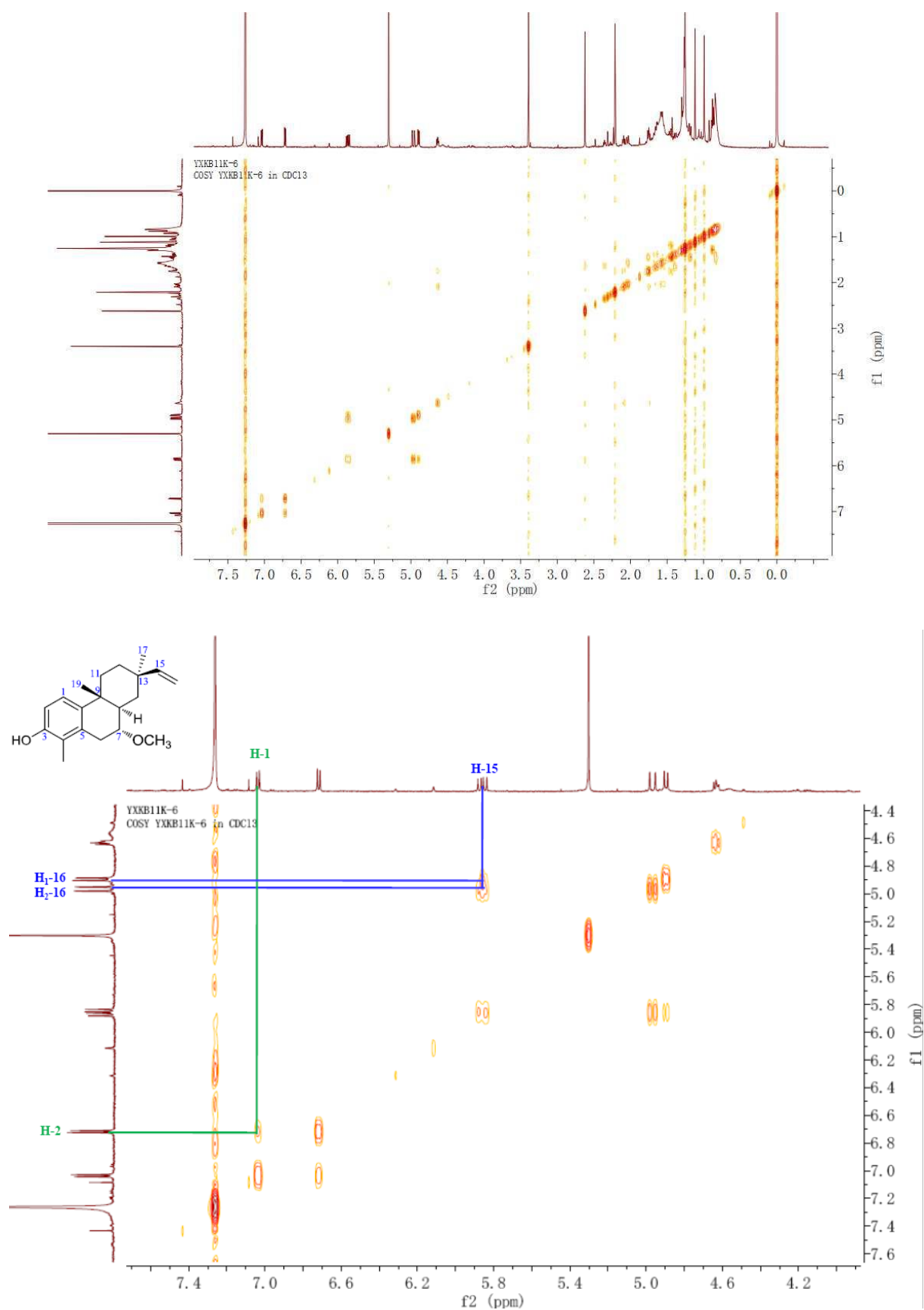


Figure S8: ^1H - ^1H COSY spectrum of compound **1**

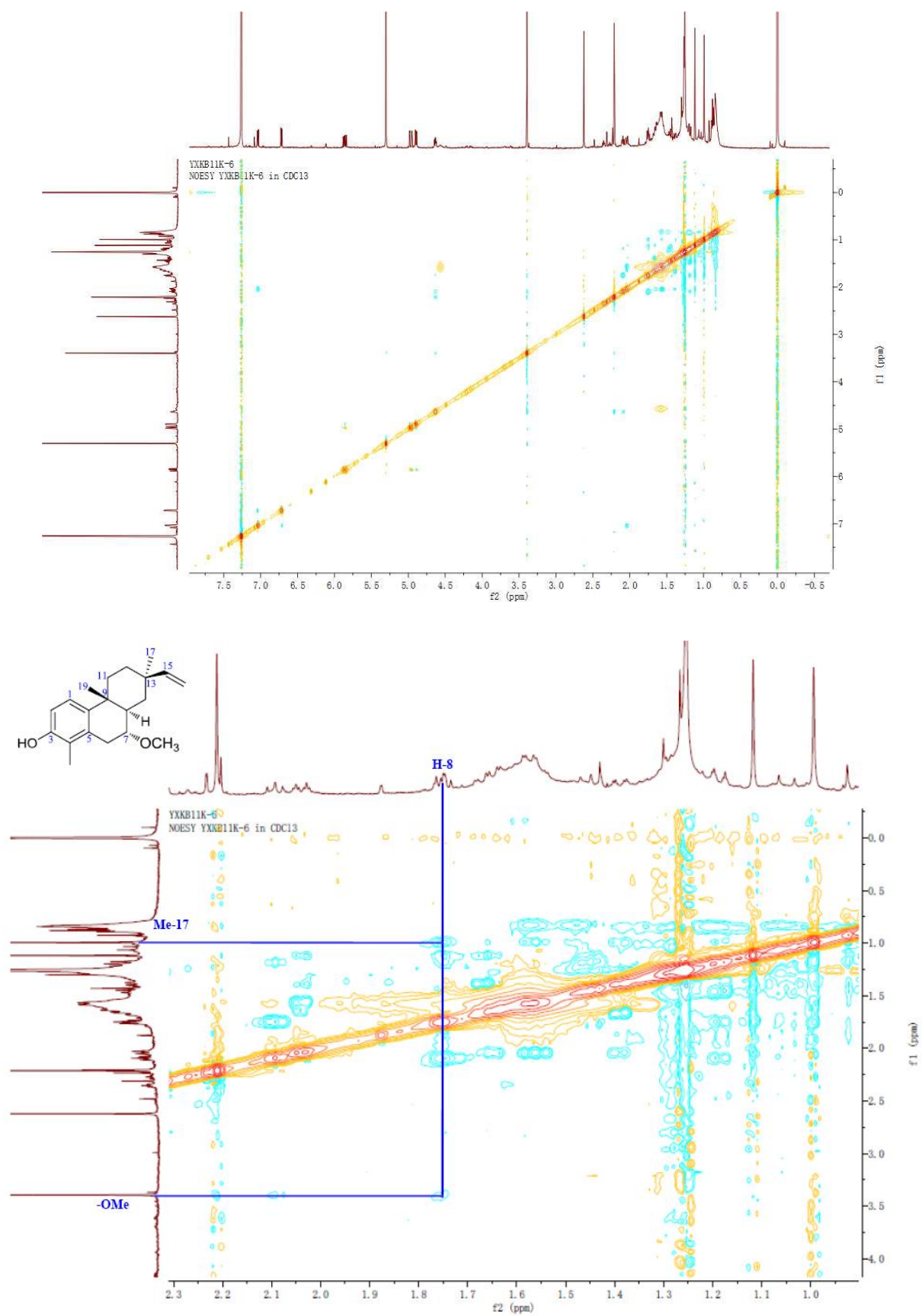


Figure S9: NOESY spectrum of compound 1