

Supporting Information

Design, Synthesis, and Biological Evaluation of N14-Amino Acid-Substituted Tetrandrine Derivatives as Potential Antitumor Agents against Human Colorectal Cancer

Yu-Chan Wang, Rong-Hong Zhang, Sheng-Cao Hu, Hong Zhang, Dan Yang, Wen-Li
Zhang, Yong-Long Zhao, Dong-Bing Cui, Yong-Jun Li, Wei-Dong Pan, Shang-Gao
Liao, Meng Zhou

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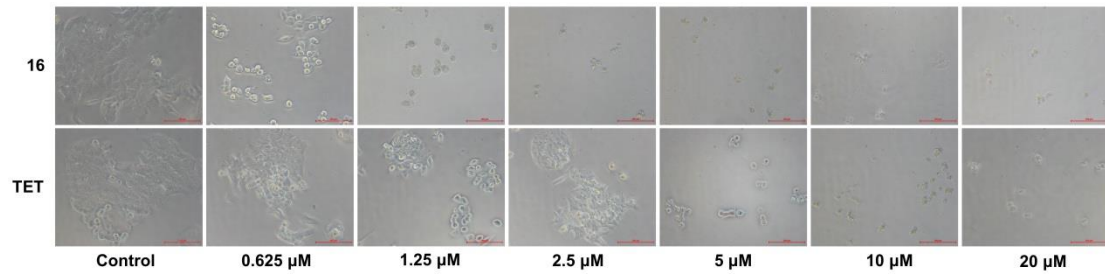


Figure S1. Morphology of HCT-15 cells after adding different concentrations of **16**, and tetrandrine (TET).

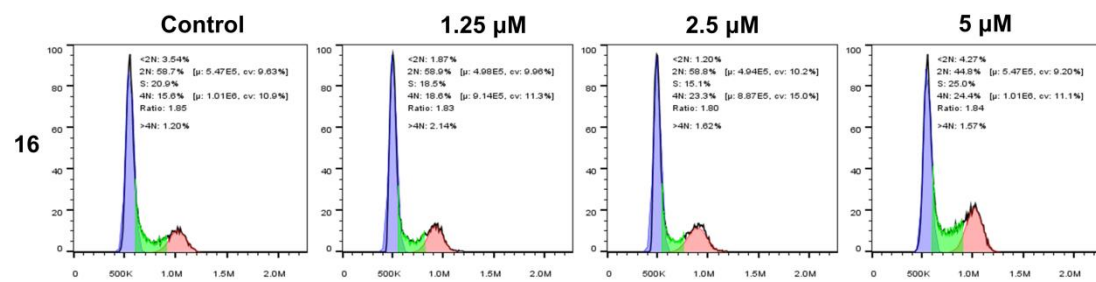
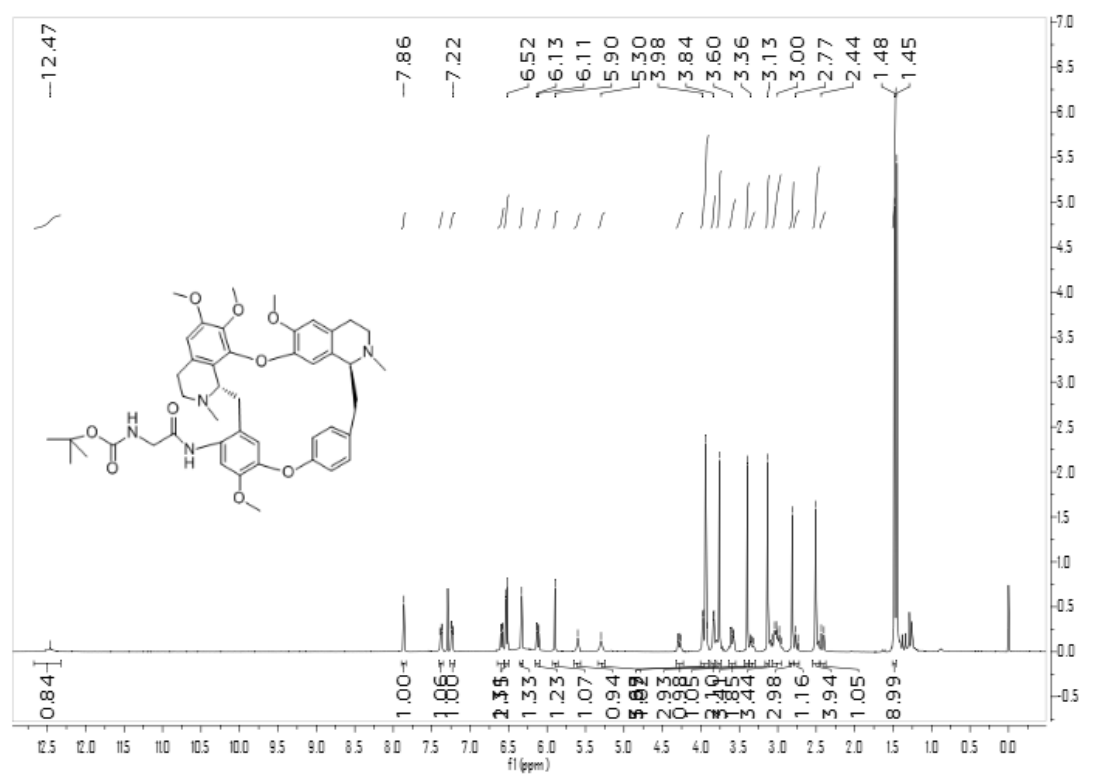
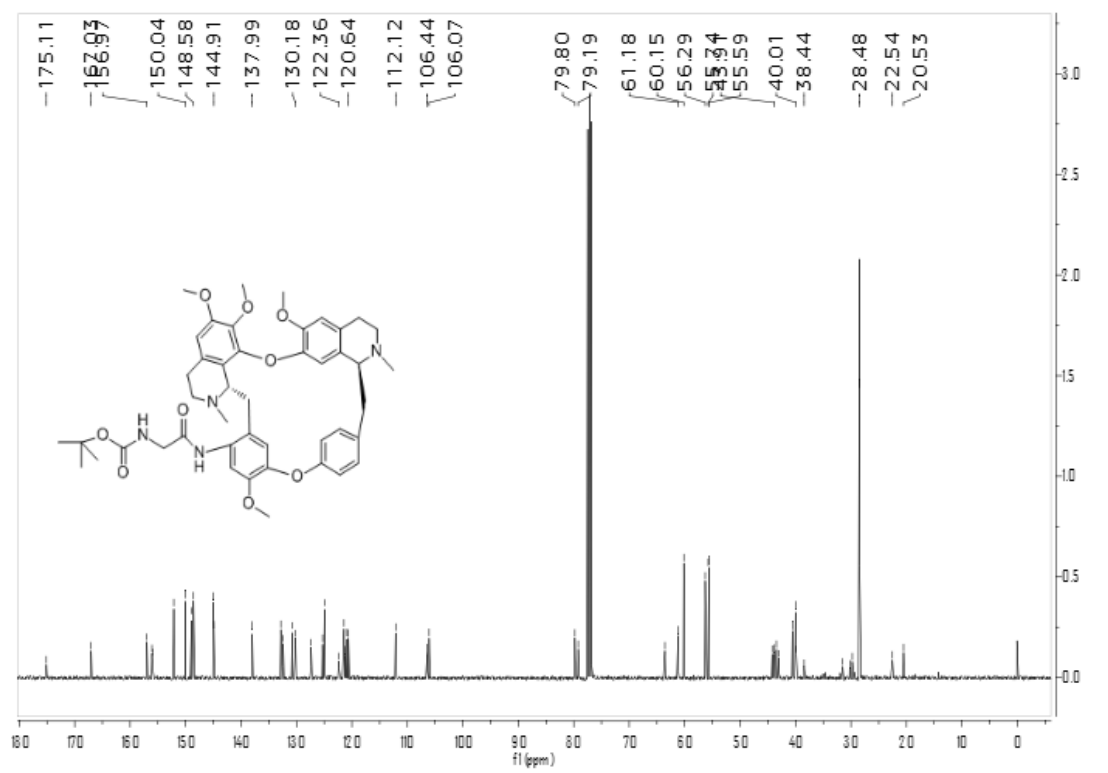


Figure S2. Cell cycle analysis of HCT-15 cells treated with **16** (1.25, 2.5, 5 μM) for 24 h by flow cytometry assay.

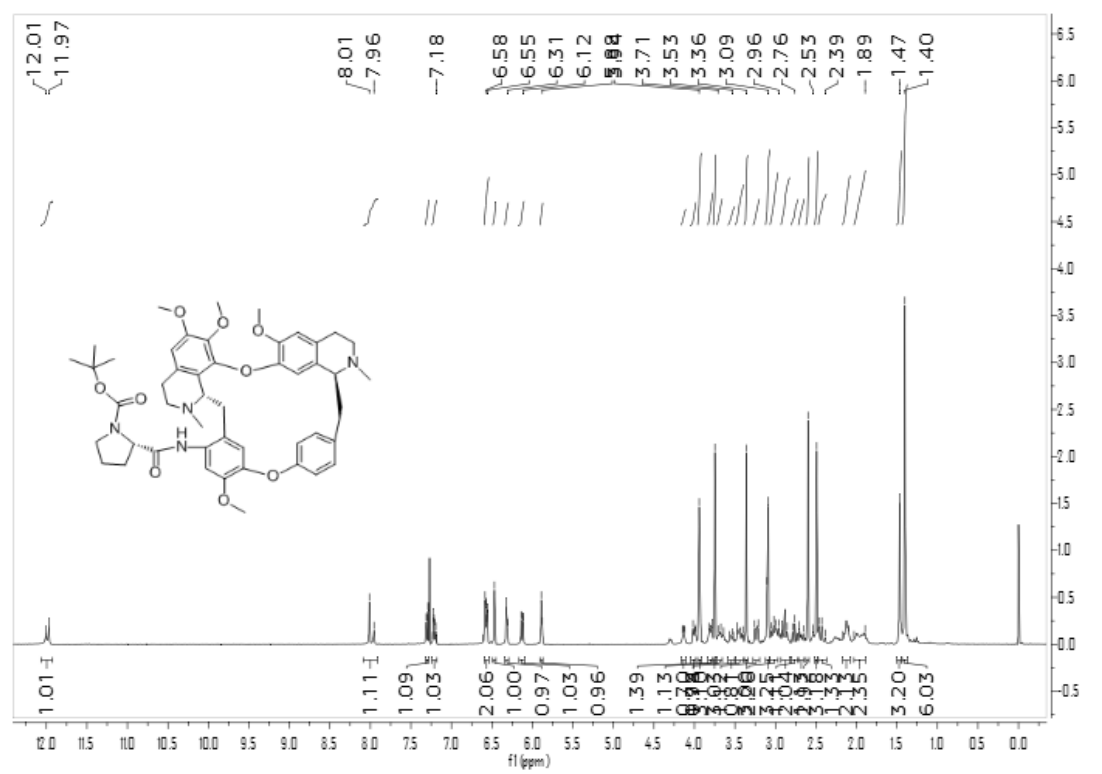
¹H and ¹³C NMR spectra of compounds



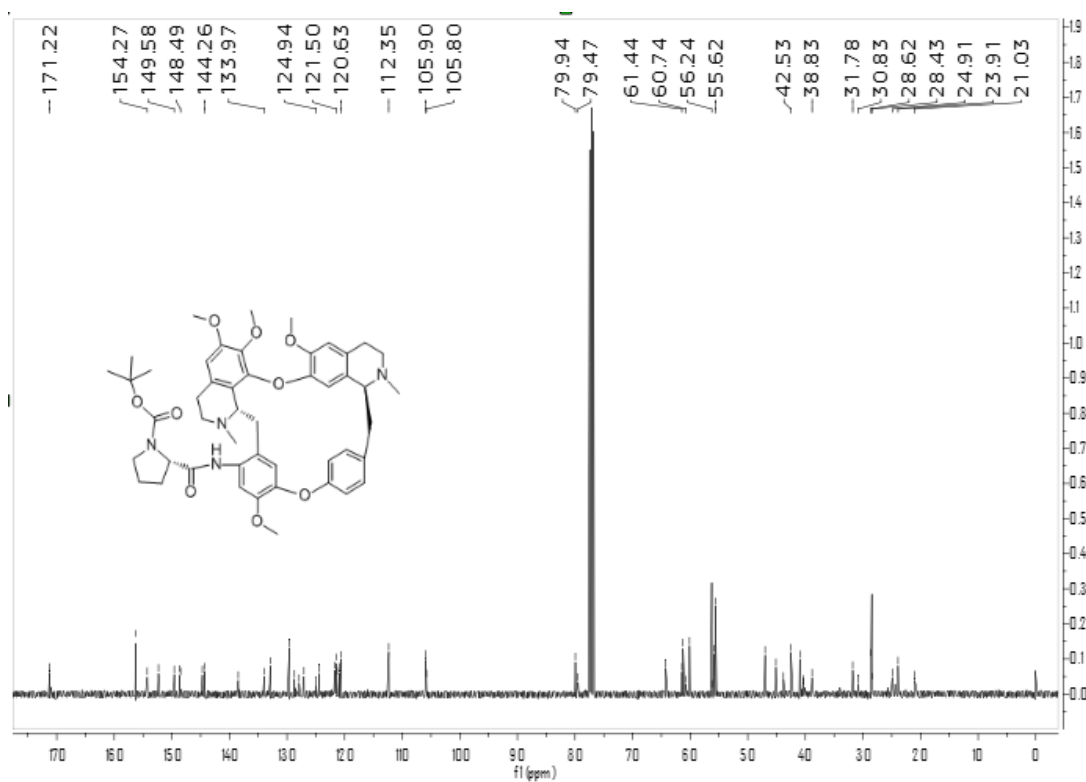
¹H NMR spectrum of **3**



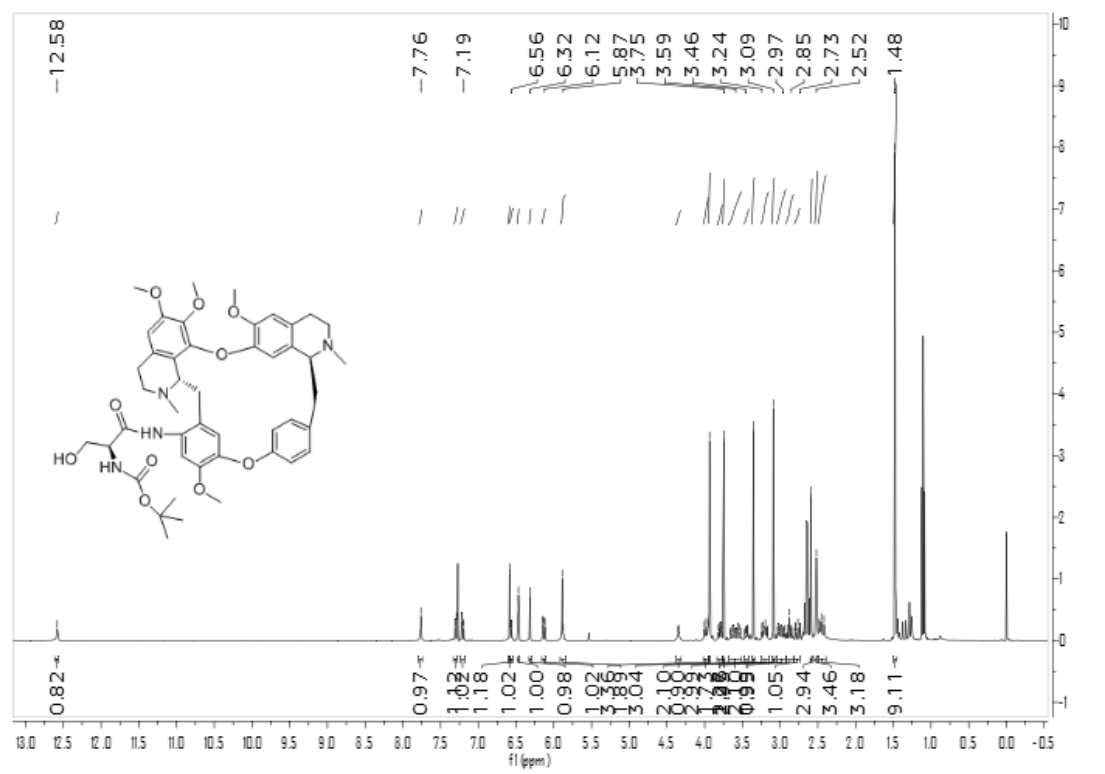
¹³C NMR spectrum of **3**



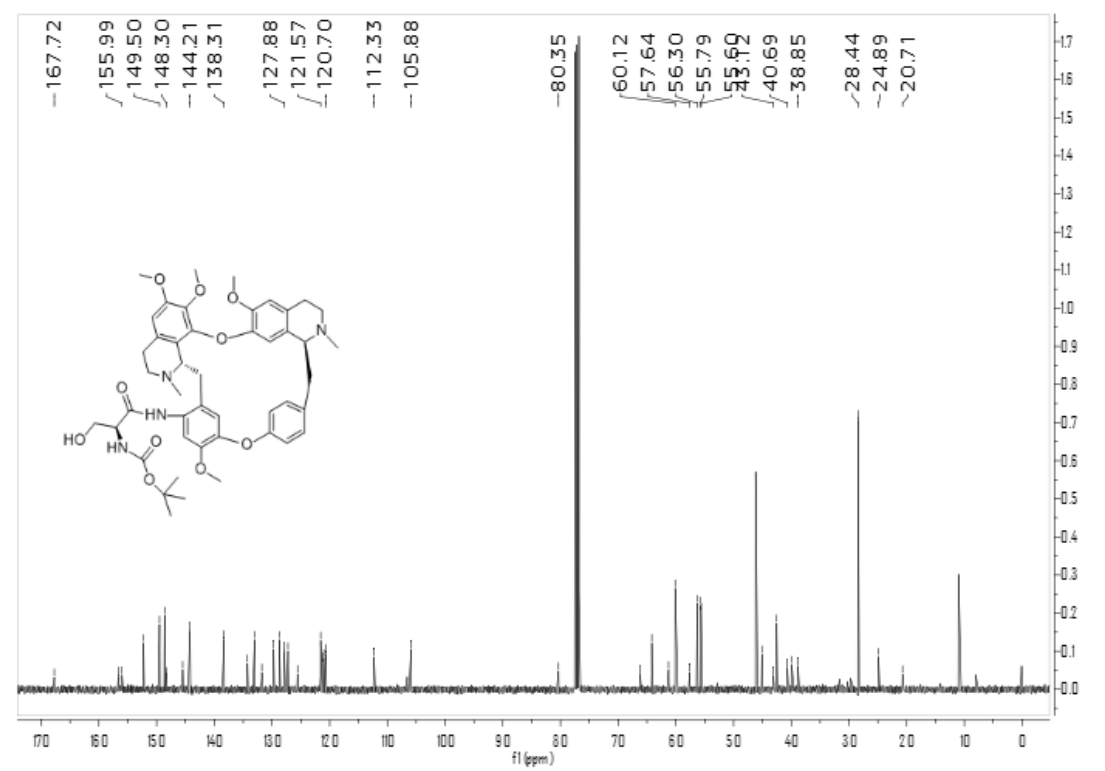
¹H NMR spectrum of 7



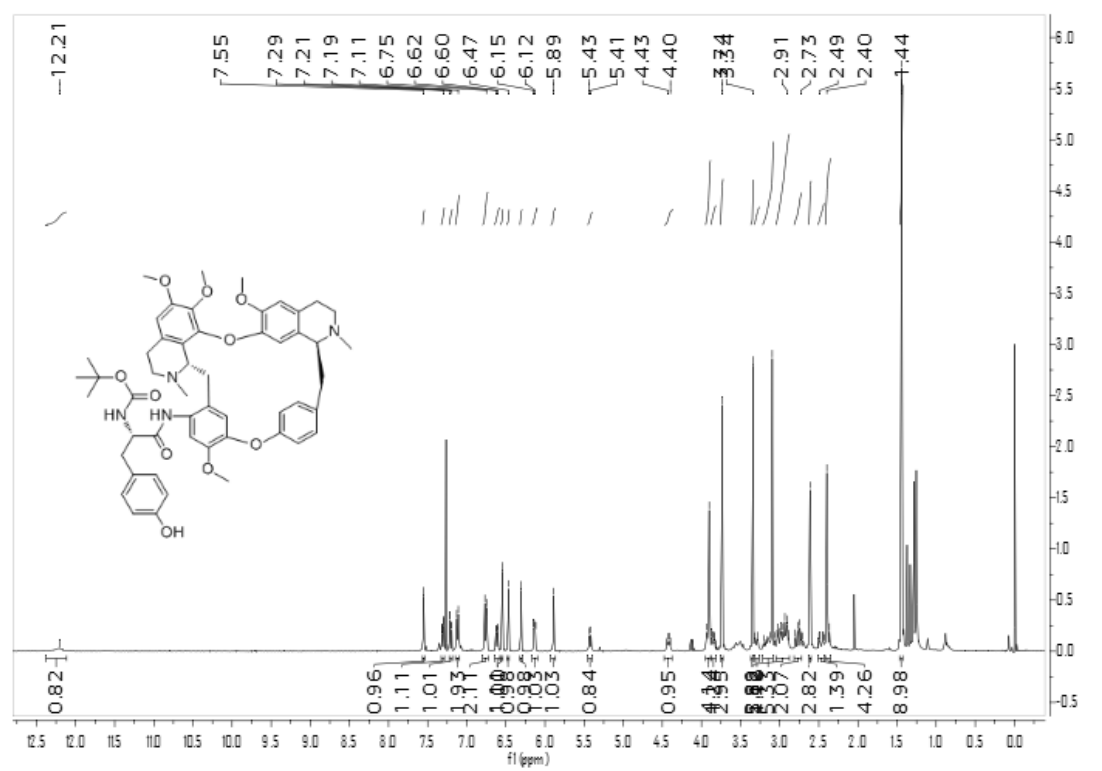
¹³C NMR spectrum of 7



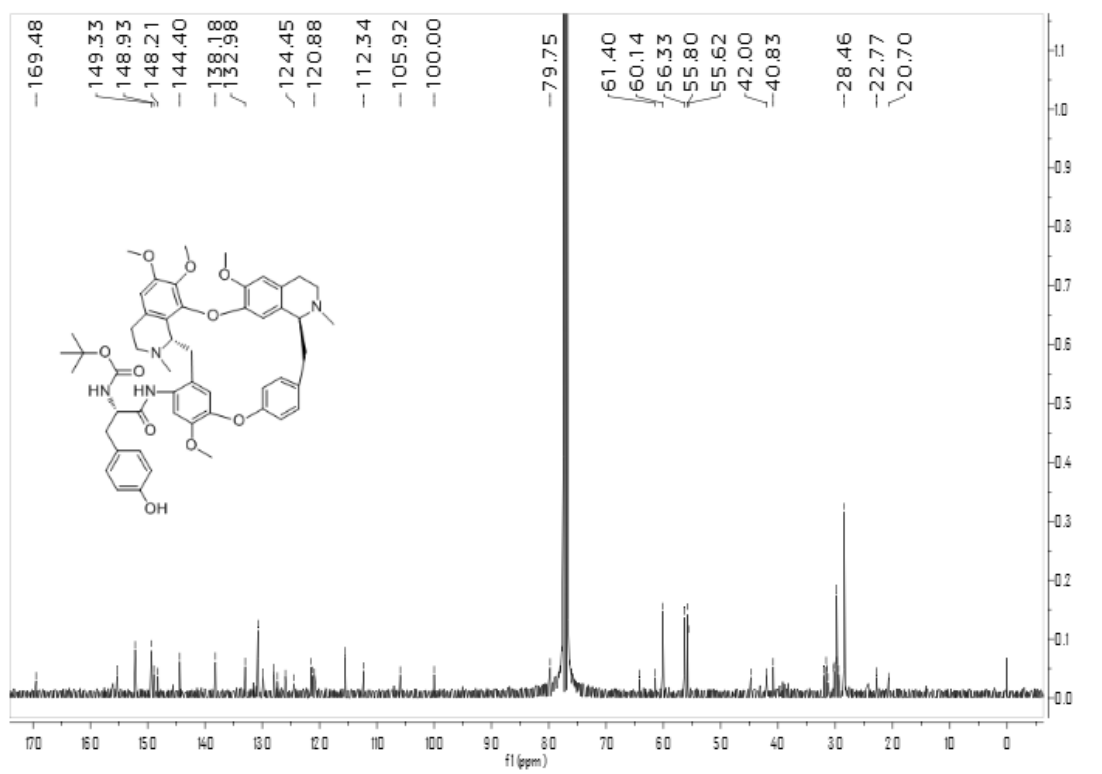
^1H NMR spectrum of 8



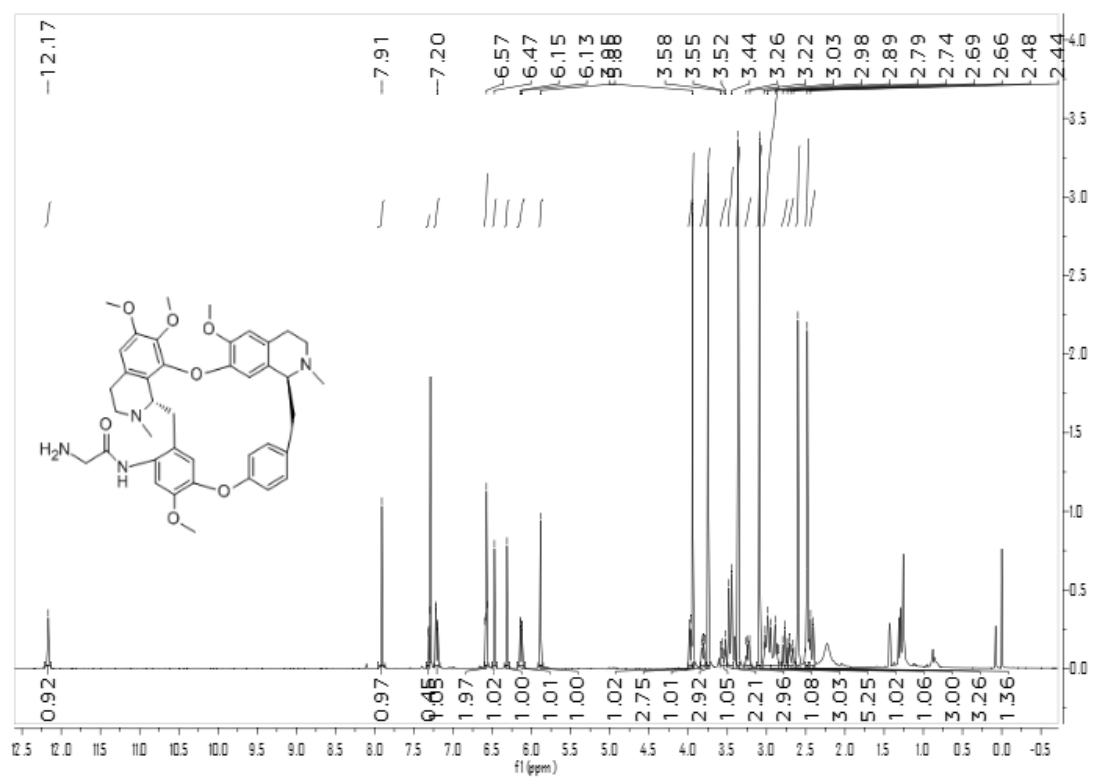
^{13}C NMR spectrum of 8



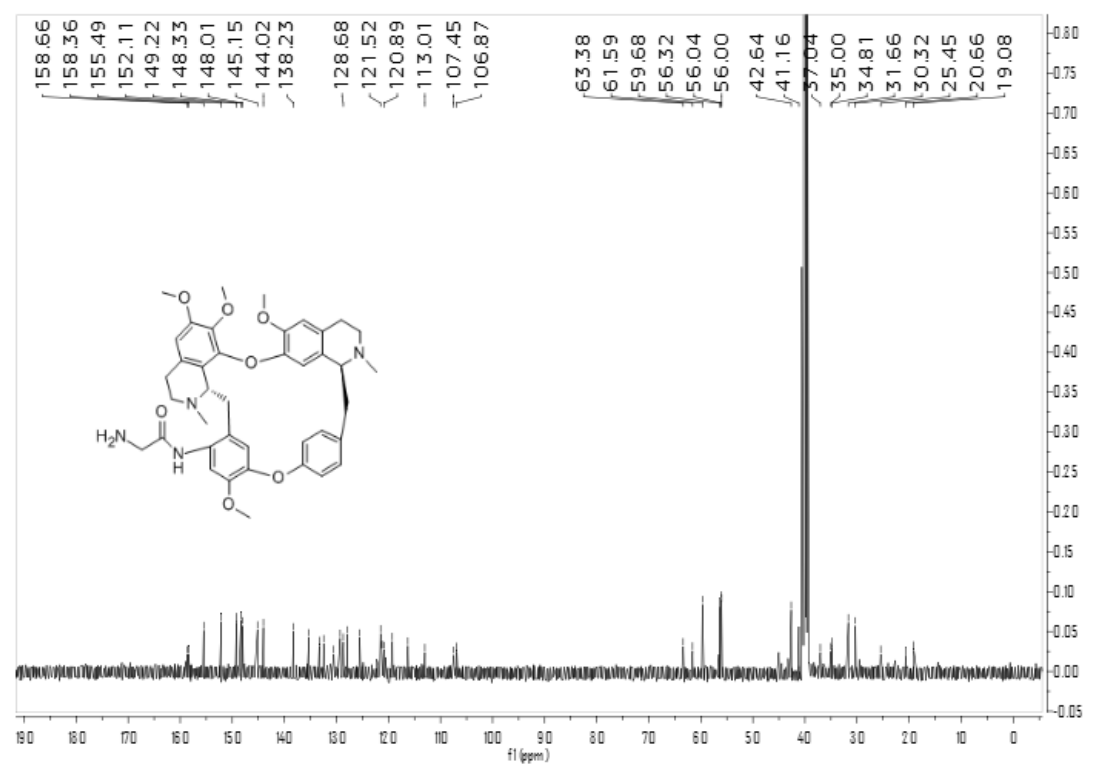
¹H NMR spectrum of **11**



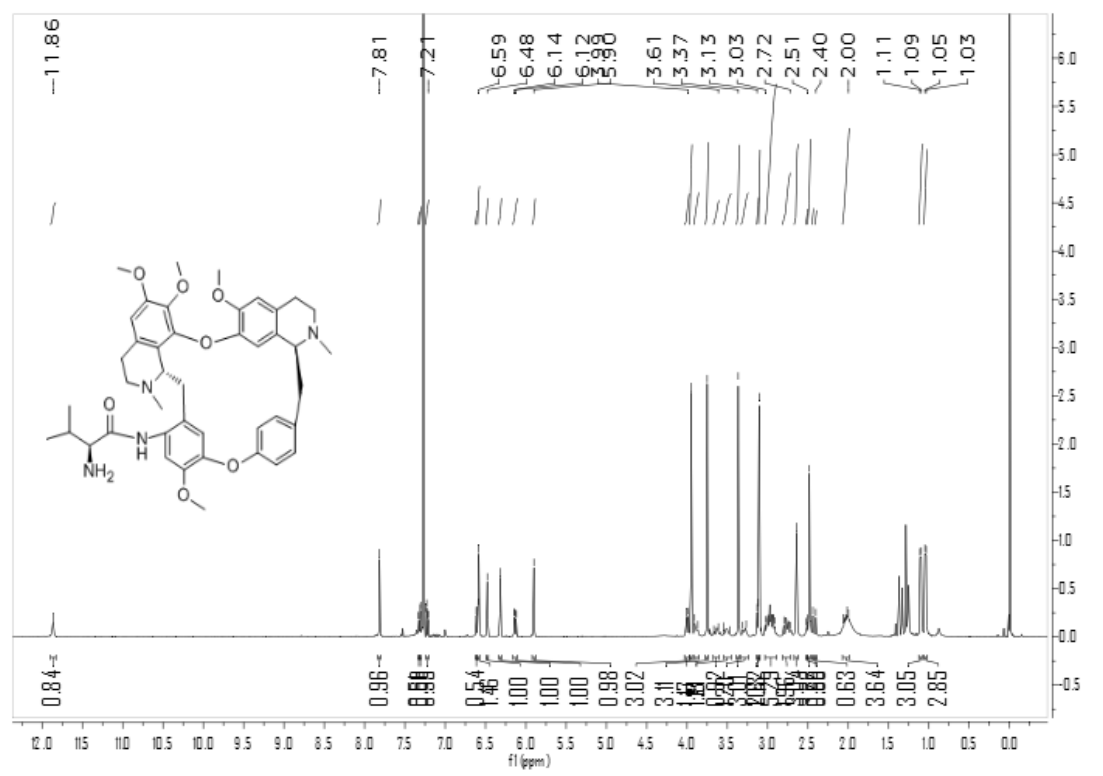
¹³C NMR spectrum of **11**



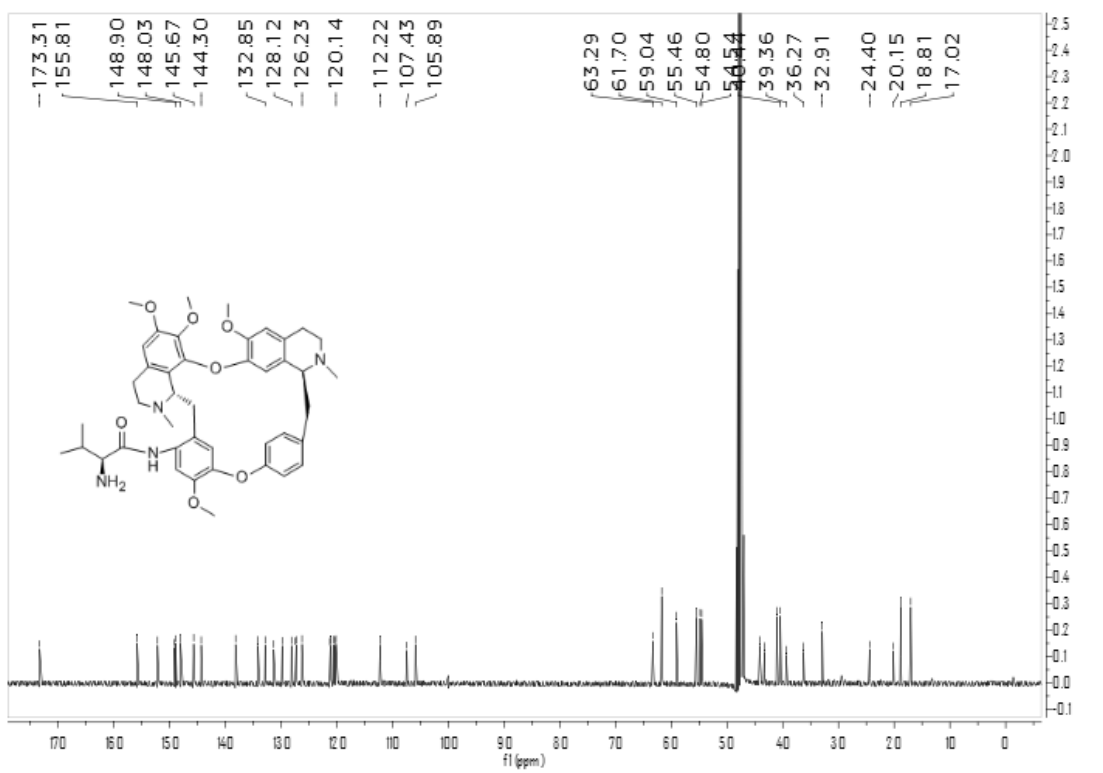
¹H NMR spectrum of 12



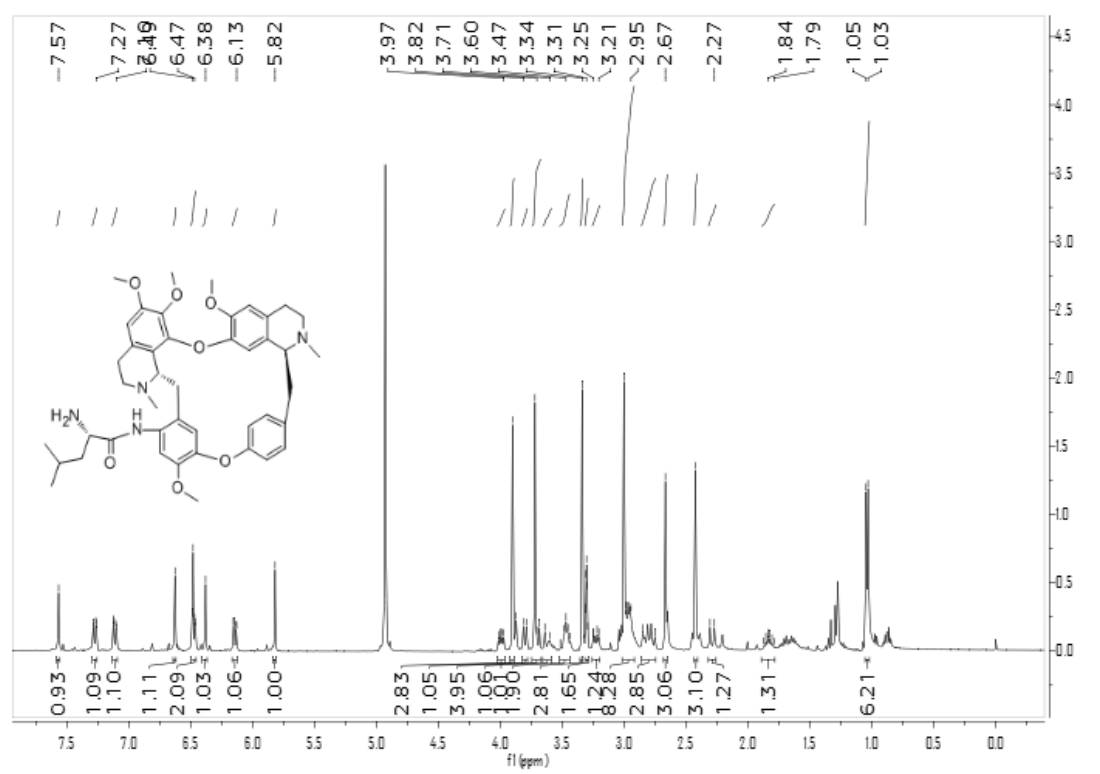
¹³C NMR spectrum of 12



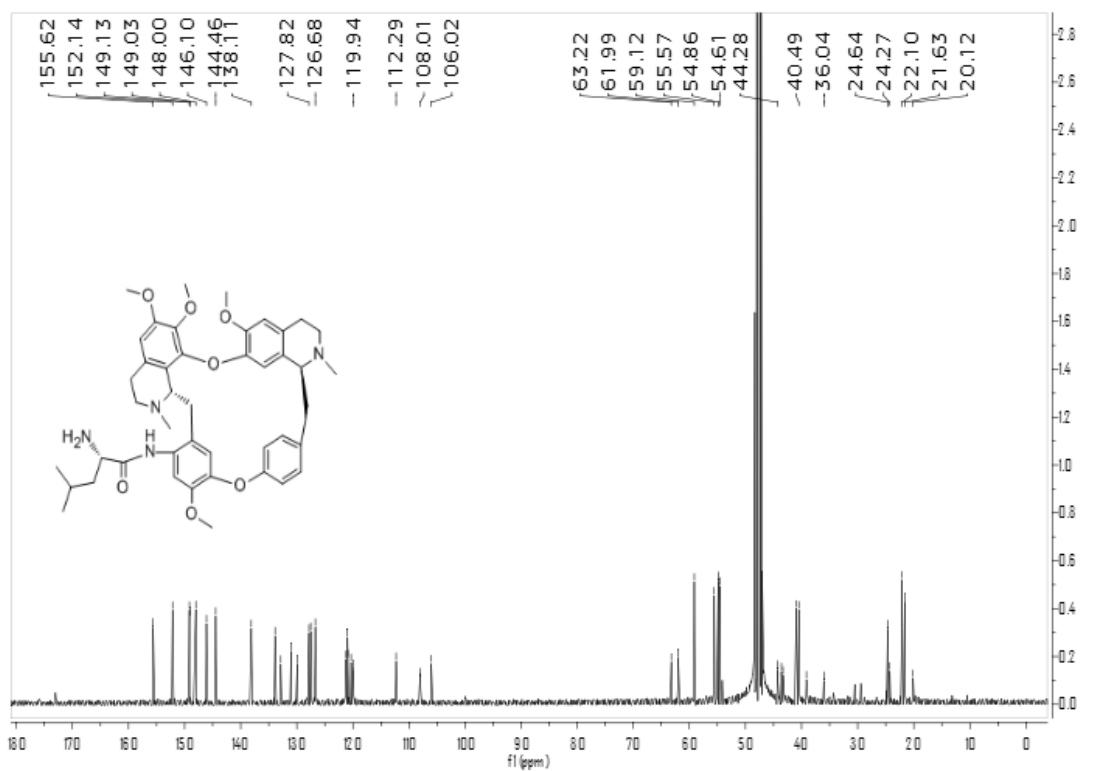
¹H NMR spectrum of 14



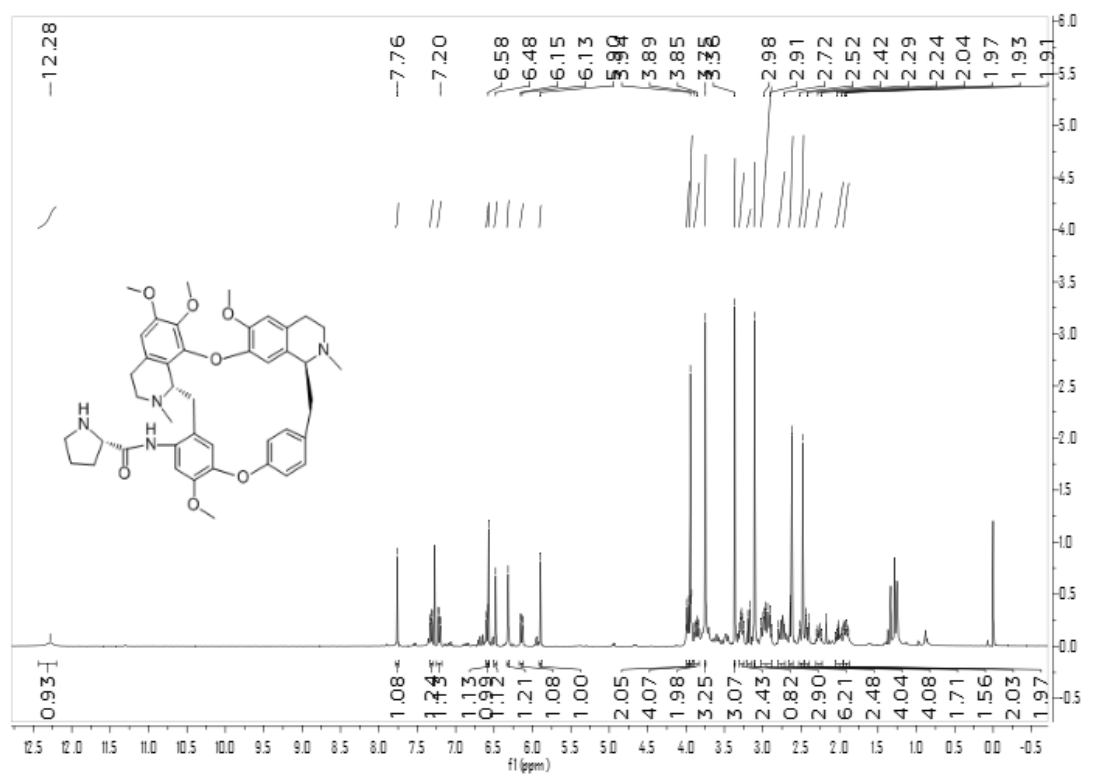
¹³C NMR spectrum of 14



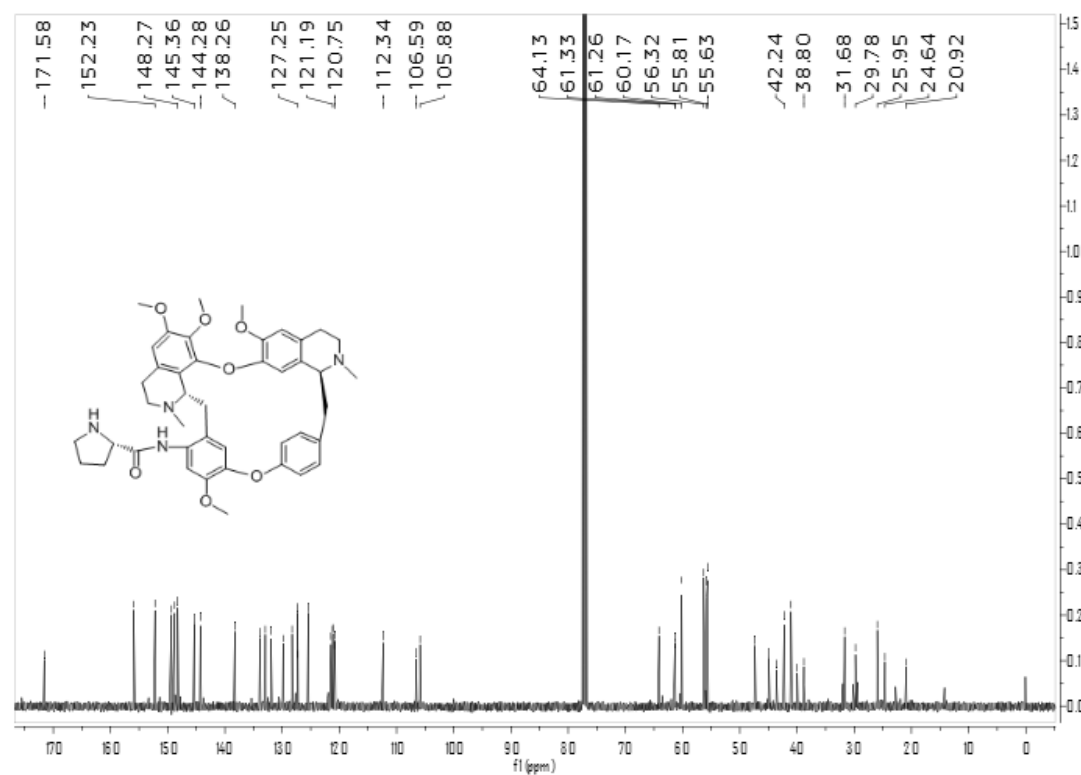
¹H NMR spectrum of **15**



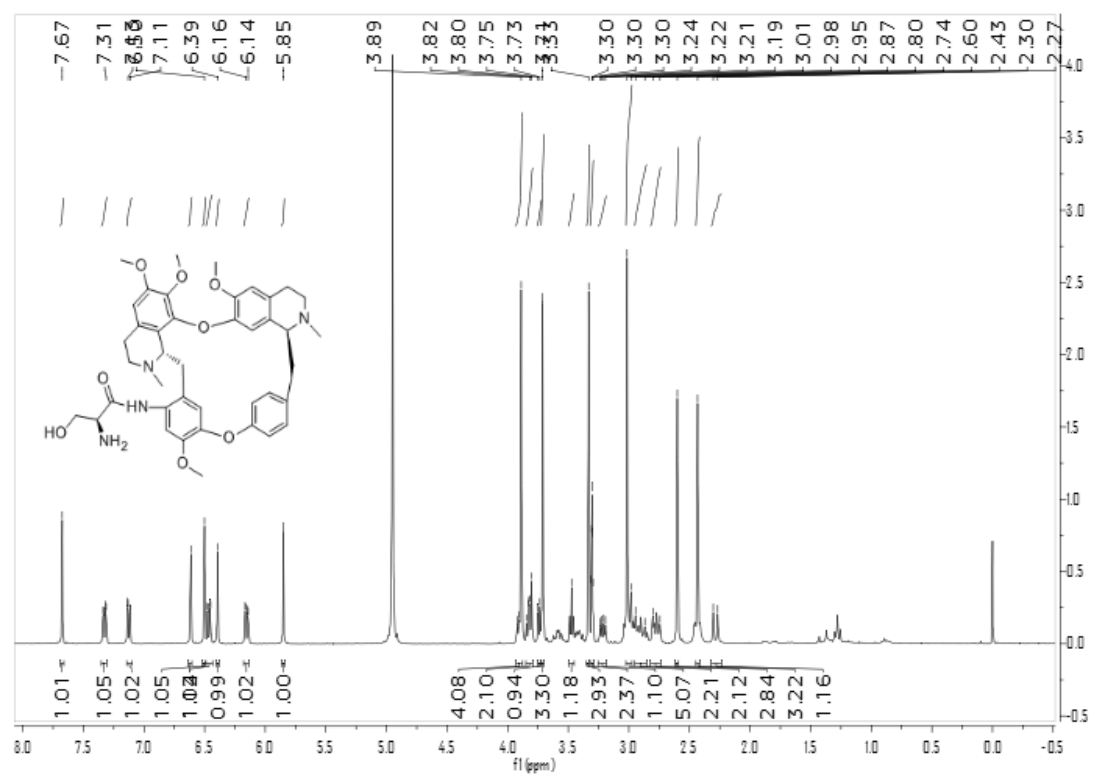
¹³C NMR spectrum of **15**



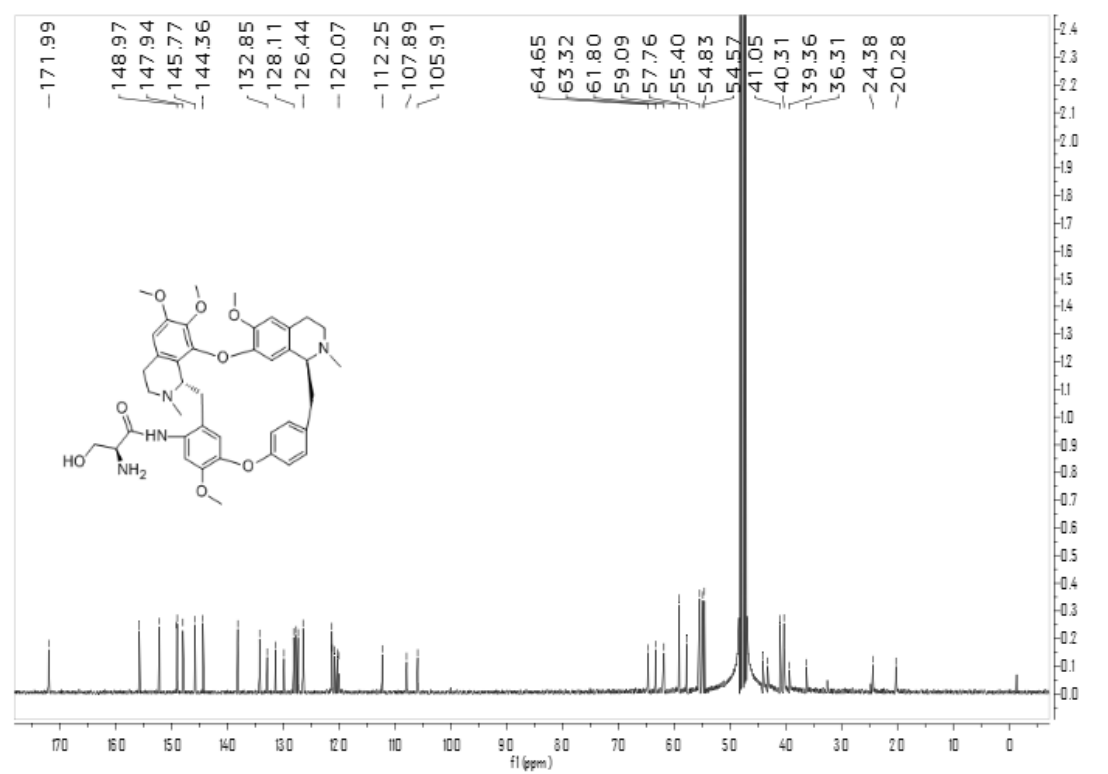
^1H NMR spectrum of **16**



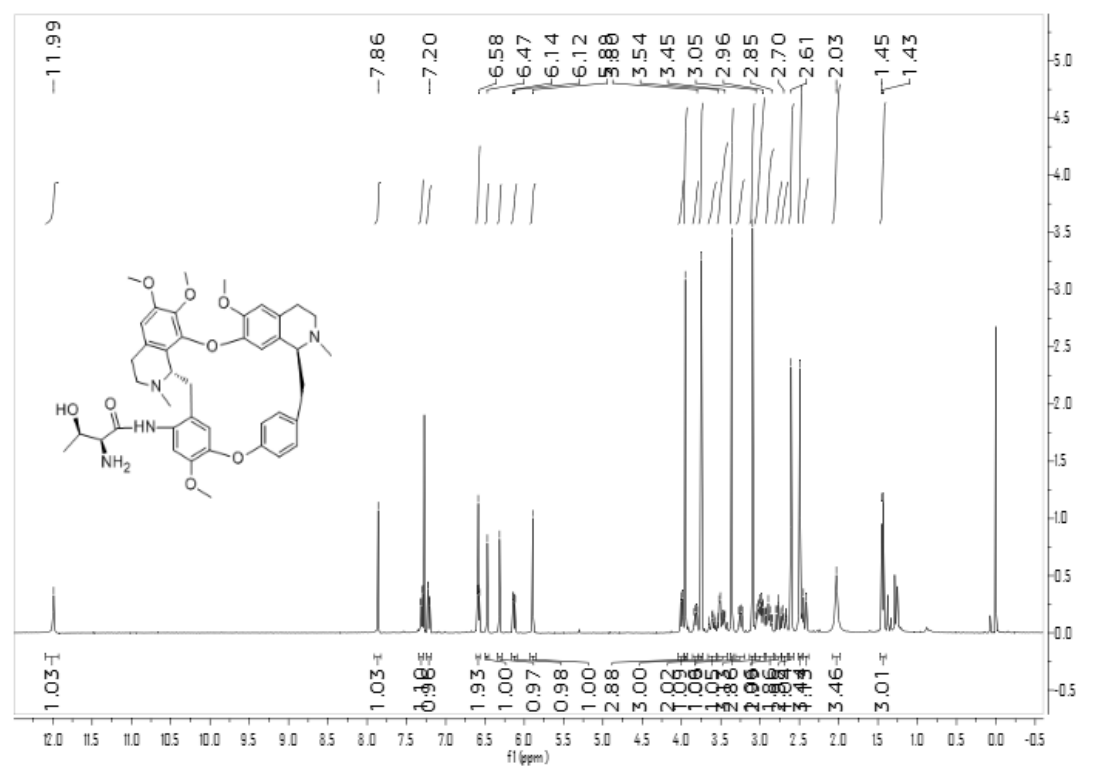
^{13}C NMR spectrum of **16**



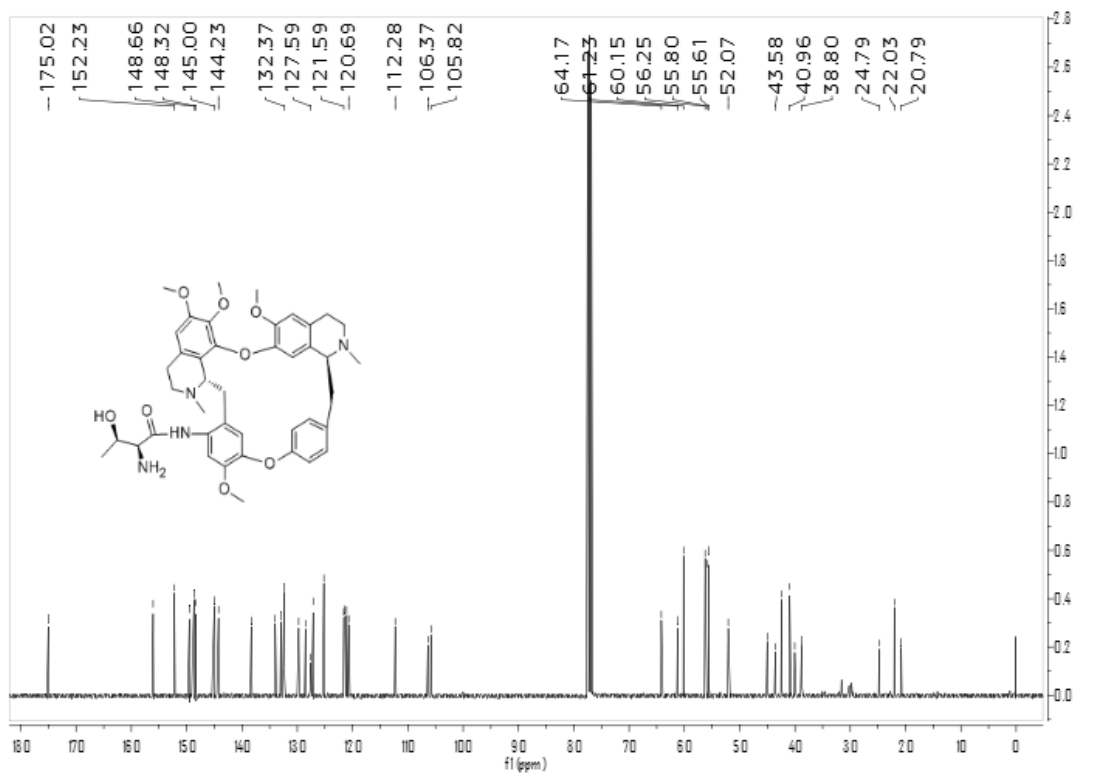
¹H NMR spectrum of 17



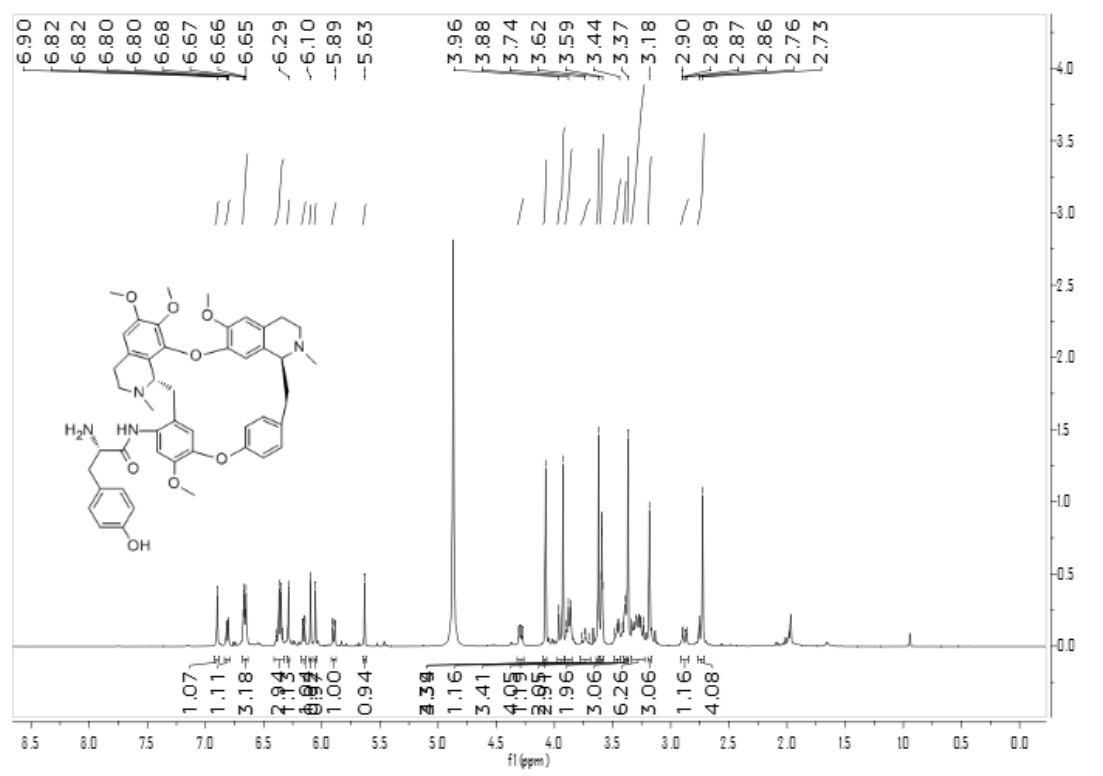
¹³C NMR spectrum of 17



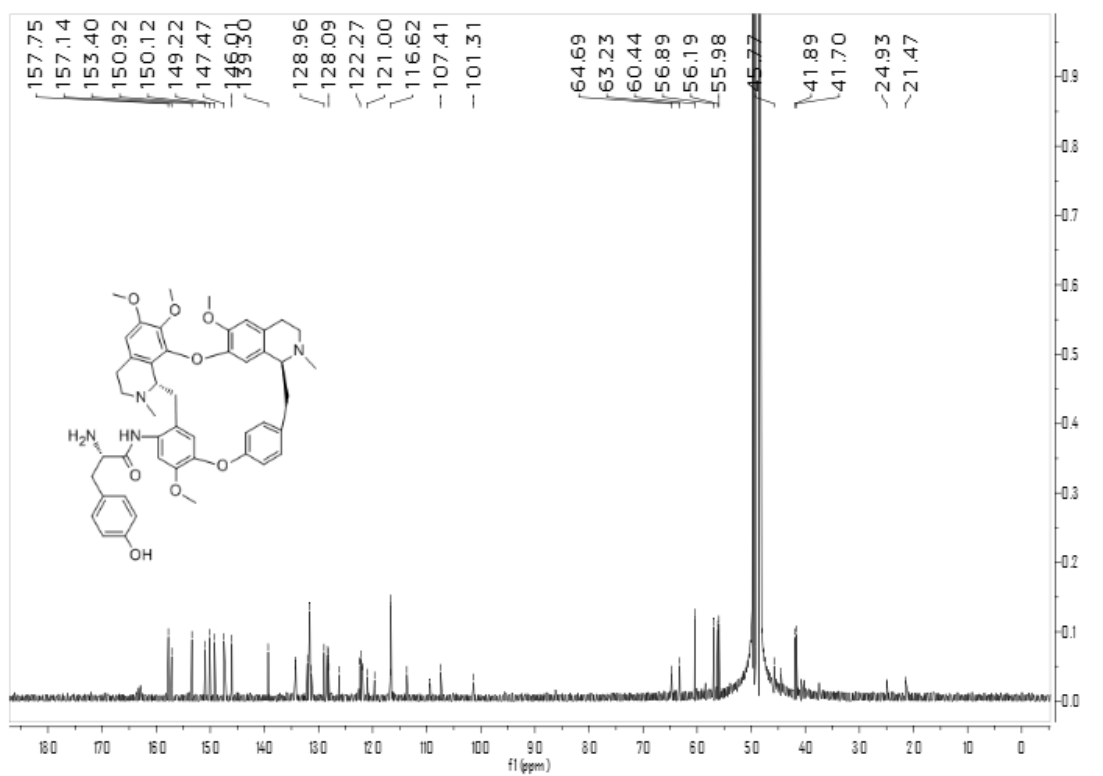
^1H NMR spectrum of **18**



^{13}C NMR spectrum of **18**

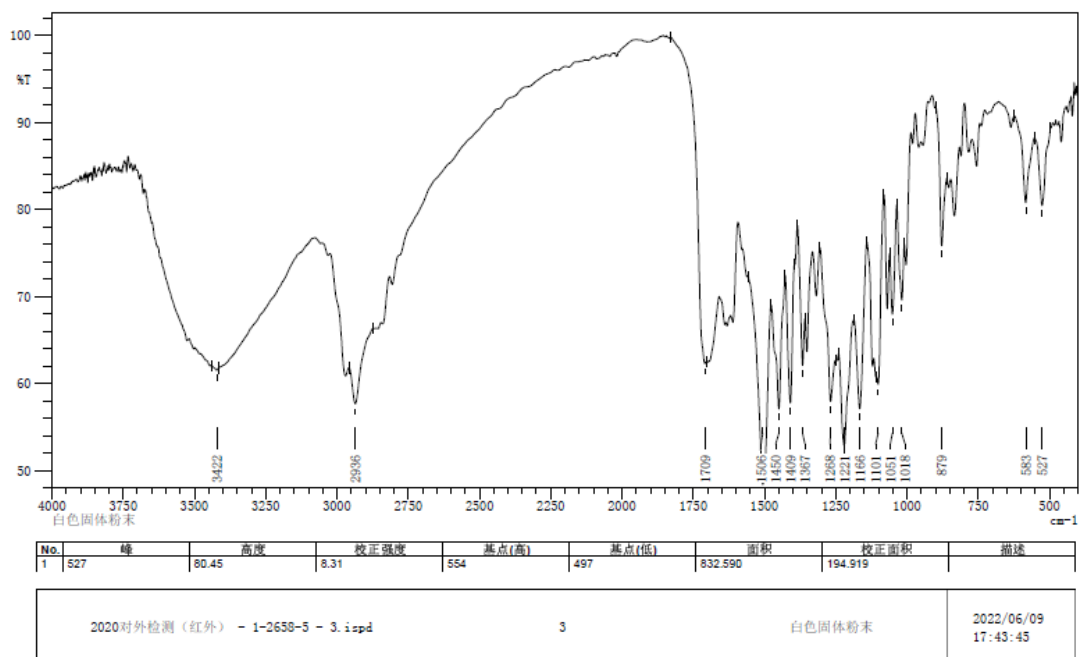


¹H NMR spectrum of **20**

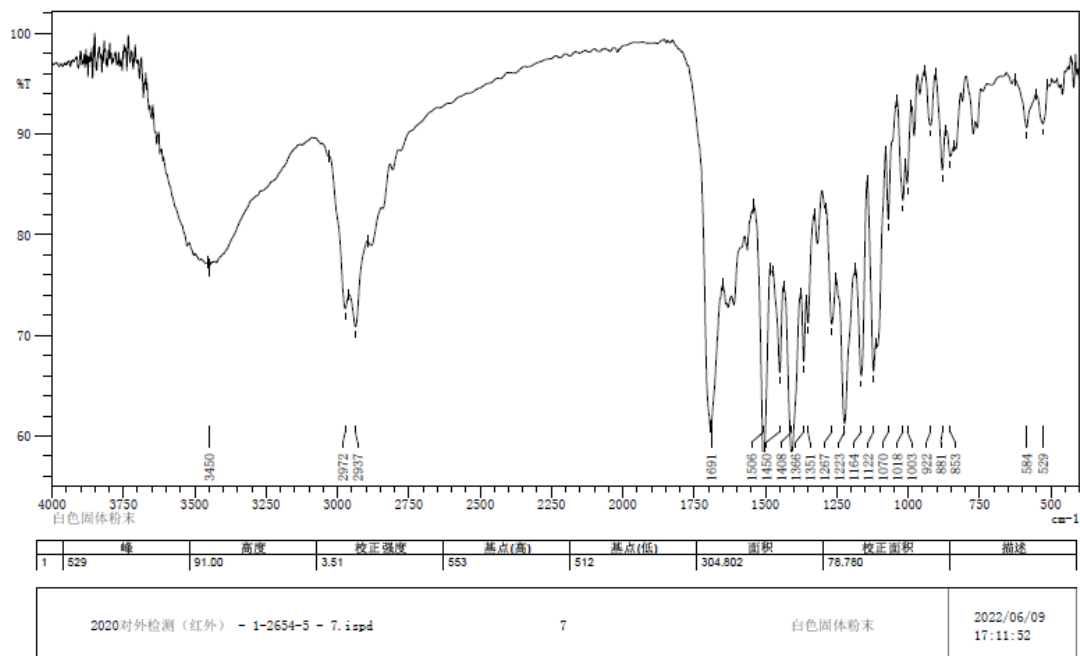


¹³C NMR spectrum of **20**

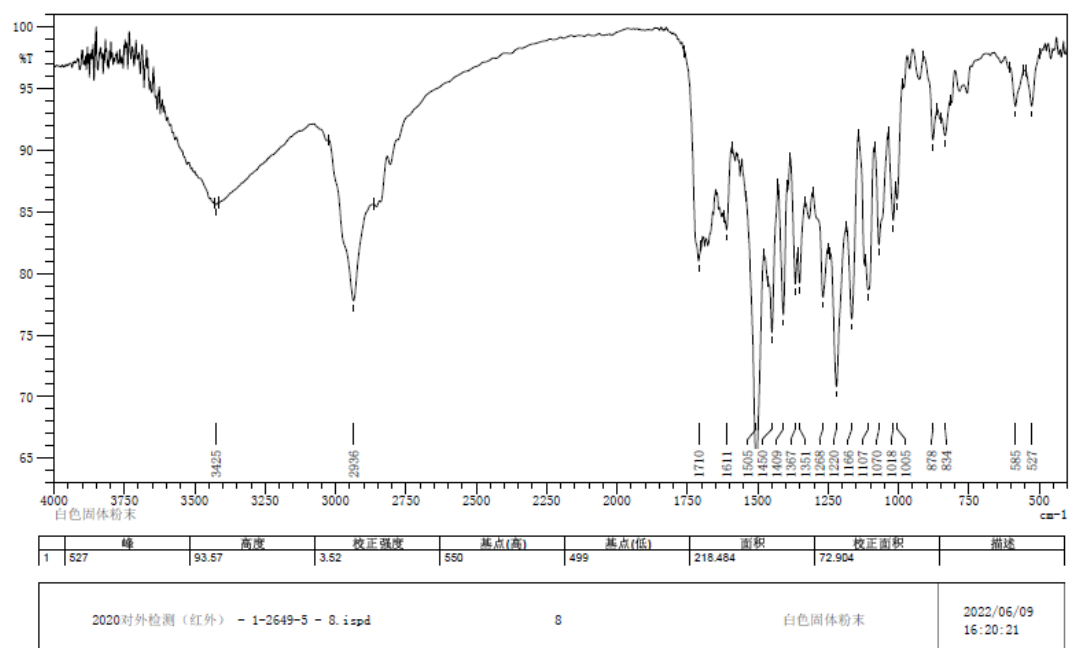
IR spectra of compounds



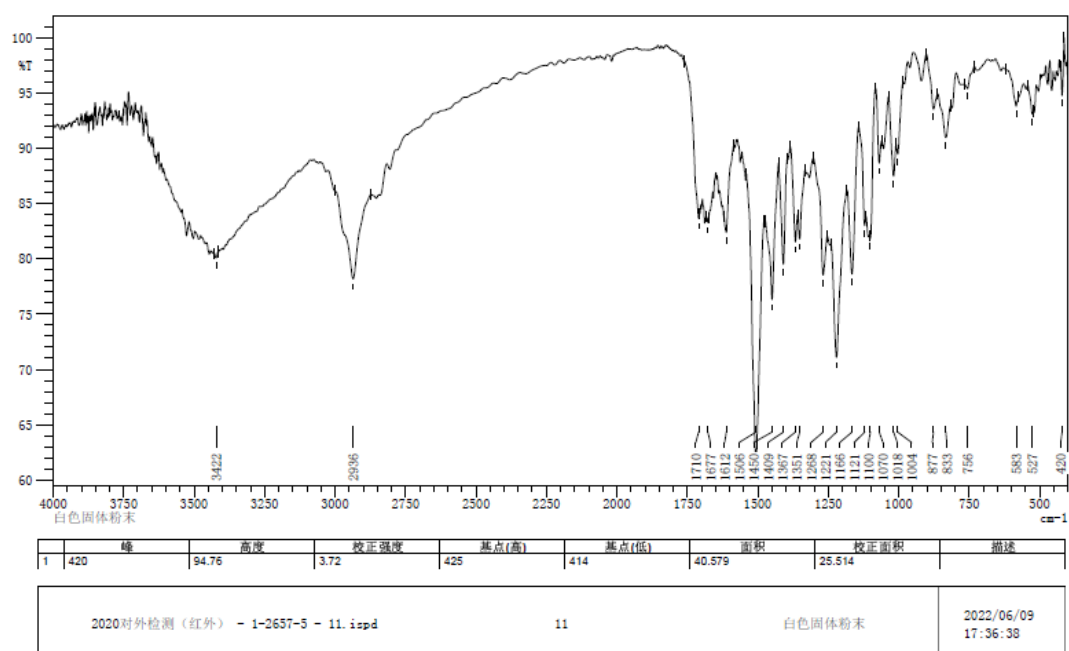
IR spectrum of 3



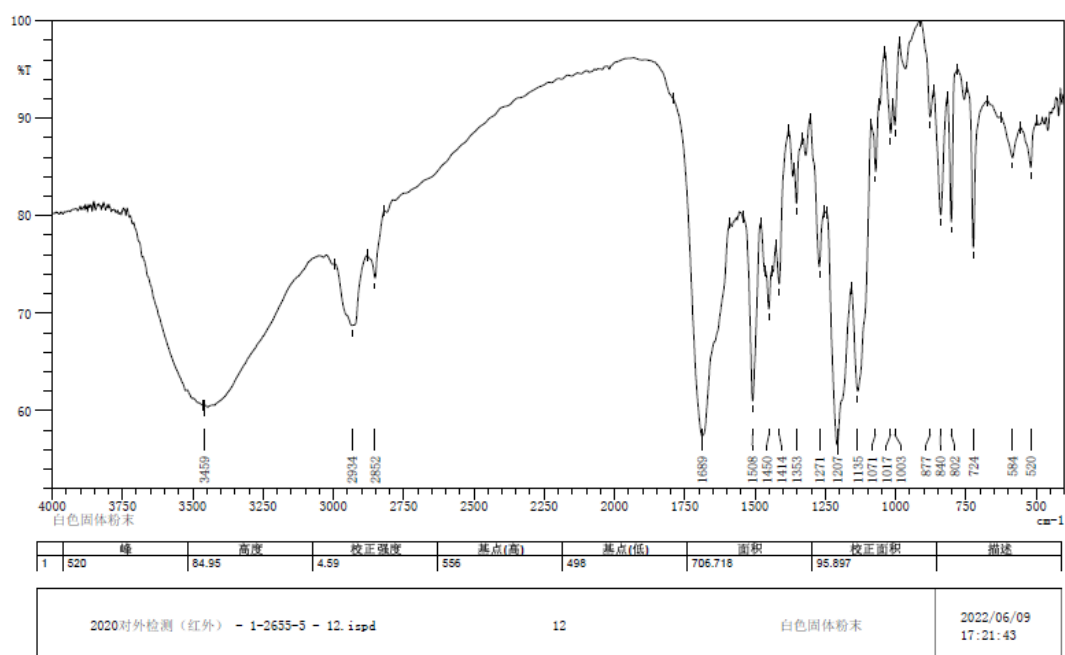
IR spectrum of 7



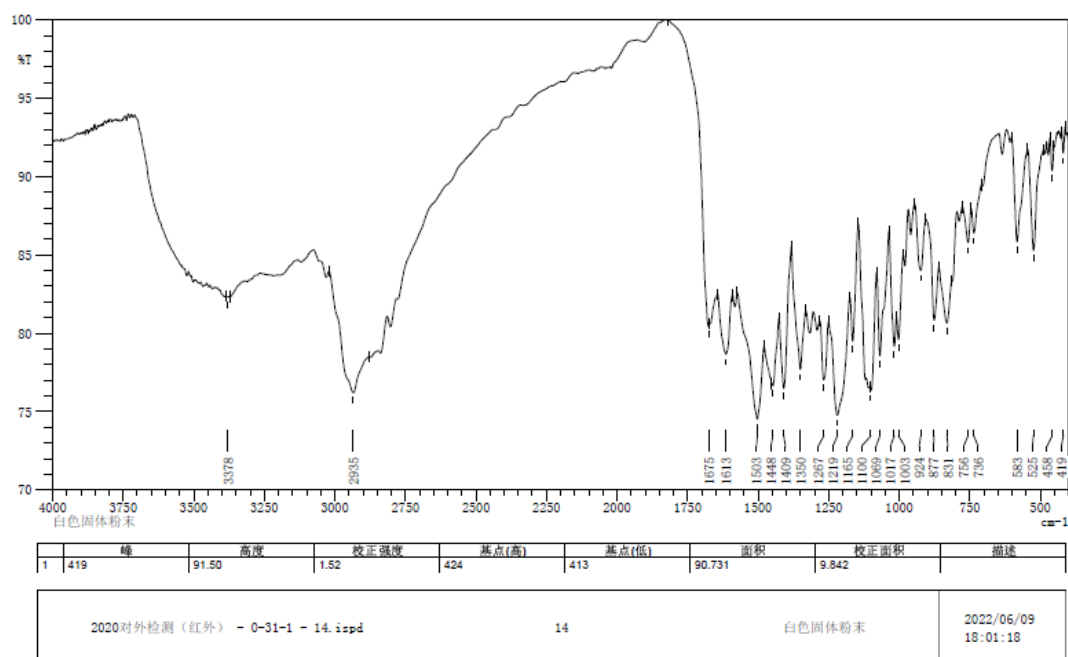
IR spectrum of 8



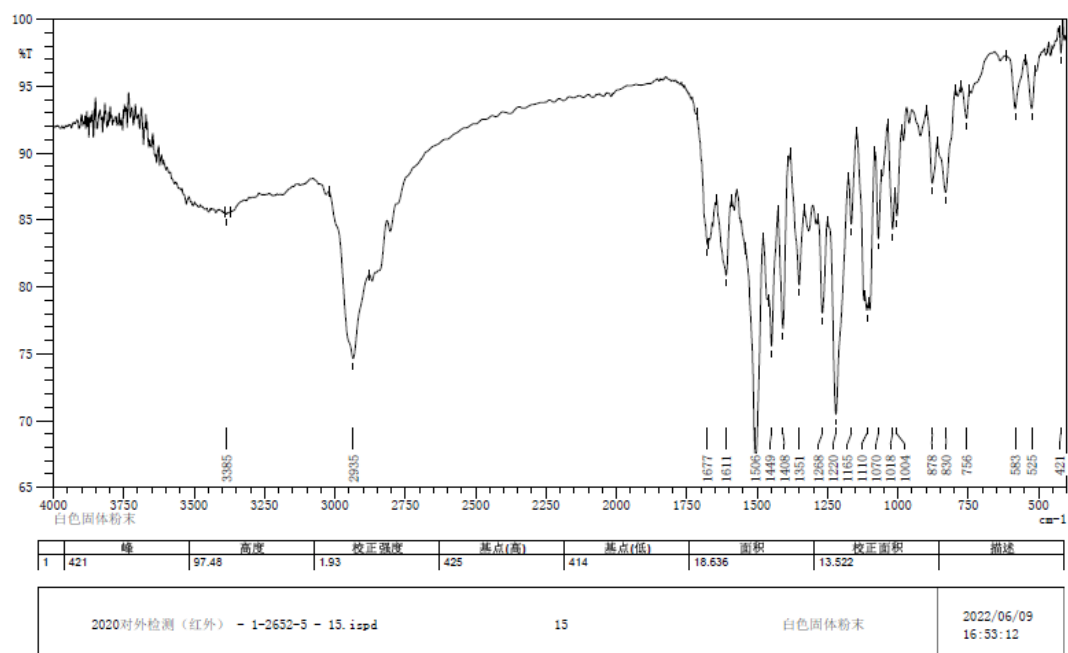
IR spectrum of 11



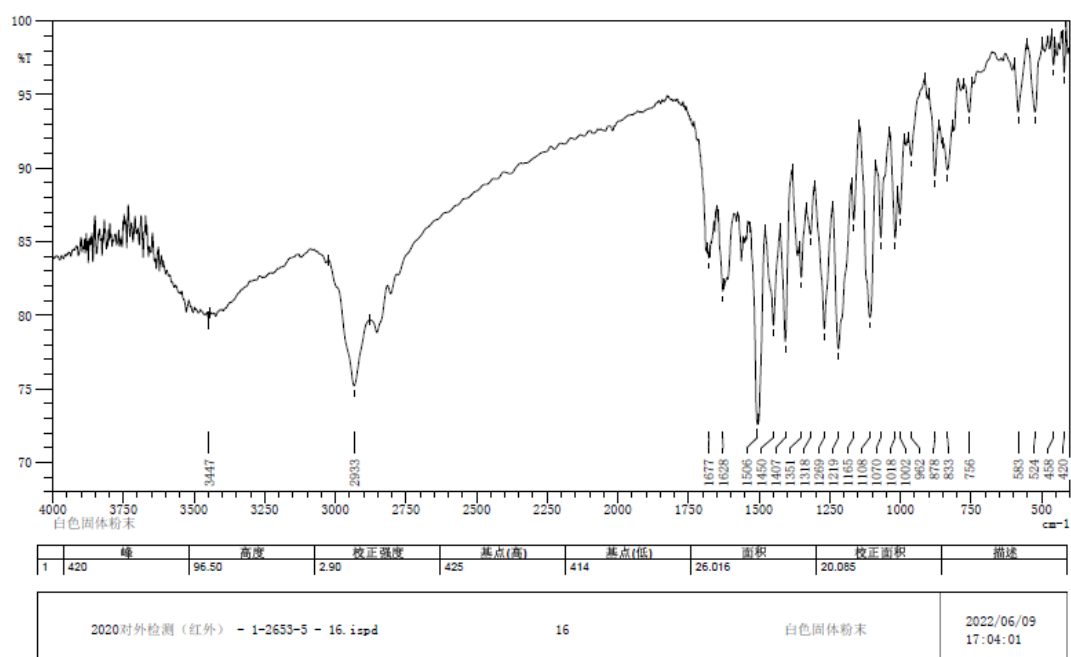
IR spectrum of 12



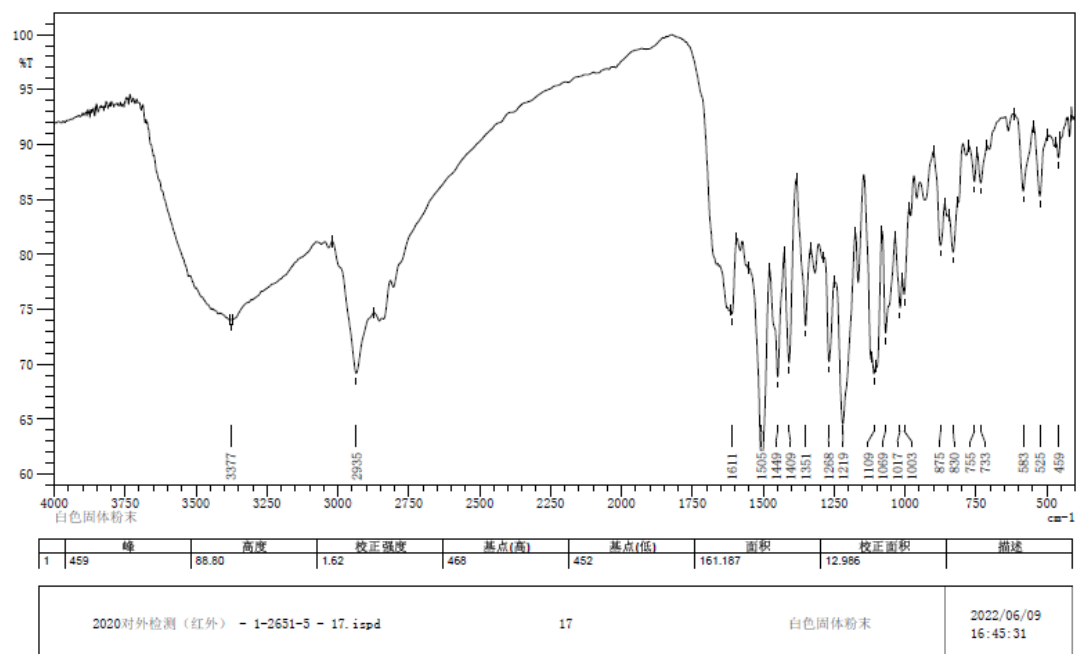
IR spectrum of 14



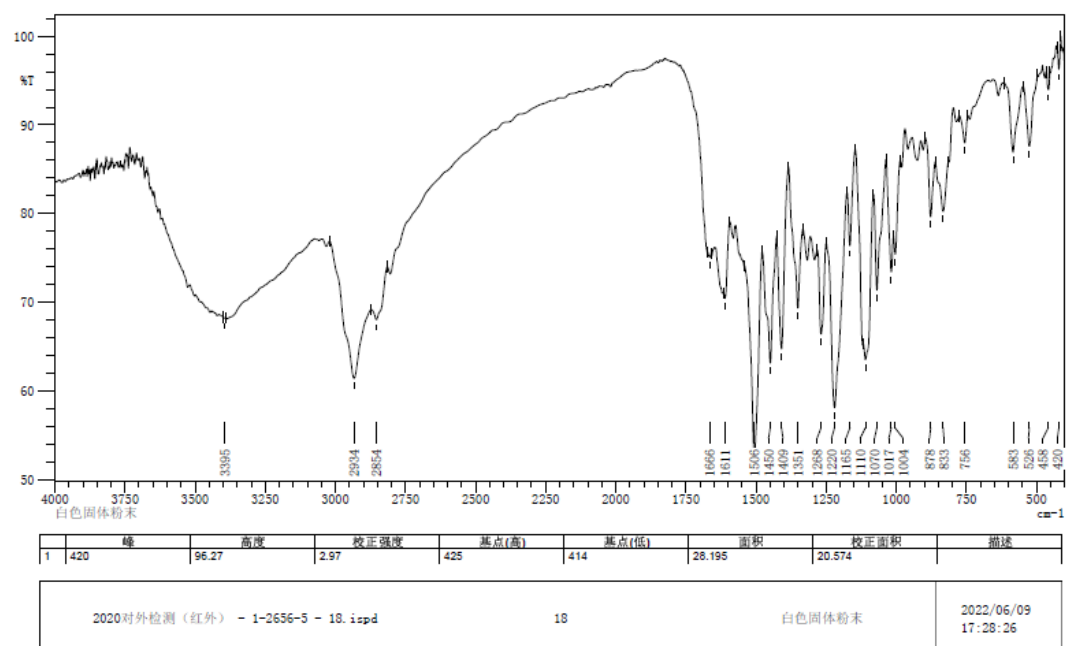
IR spectrum of 15



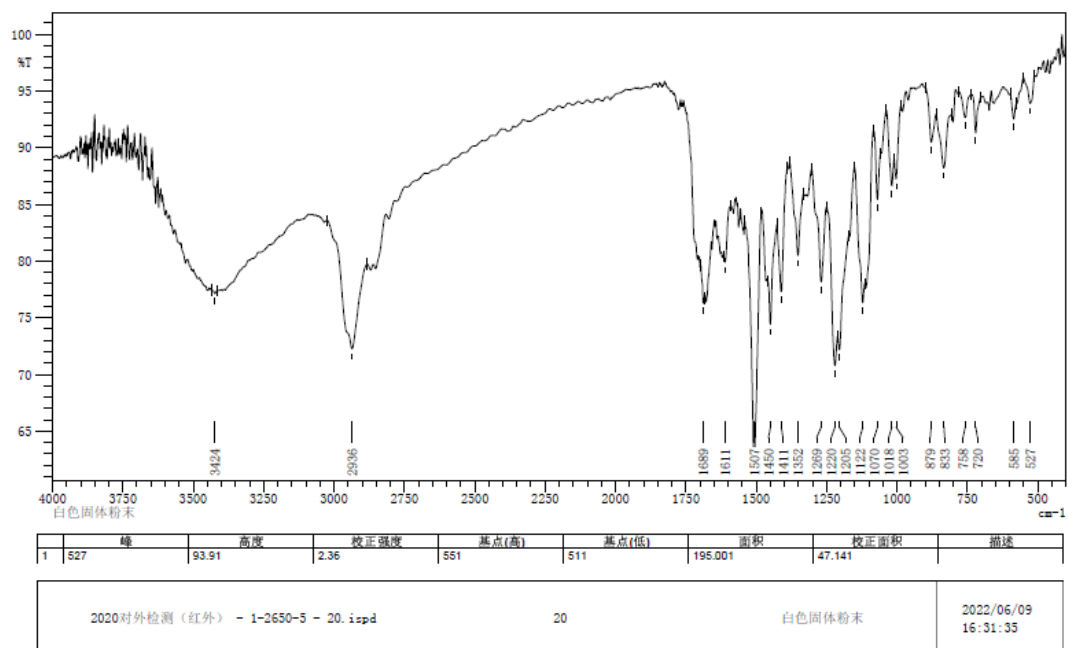
IR spectrum of 16



IR spectrum of 17



IR spectrum of 18



IR spectrum of **20**