

Synthesis and anticancer activity assessment of zelkovamycins analogues

Xinrong Xie^{1,†}, Hongshun Huang^{1,†}, Yogini S. Jaiswal^{2,†}, Shaoyang Su³, Linxia Yang^{1,†}, Yu Fan¹, Yifu Guan^{1,*}, Leonard L. Williams^{2,*}, Hedong Bian^{1,*}

¹Key Laboratory of Chemistry and Engineering of Forest Products (State Ethnic Affairs Commission), Guangxi Collaborative Innovation Center for Chemistry and Engineering of Forest Products, School of Chemistry and Chemical Engineering, Guangxi Minzu University, Nanning, Guangxi 530006, China

²Center for Excellence in Post Harvest Technologies, North Carolina Agricultural and Technical State University, The North Carolina Research Campus, Kannapolis, NC 28081, USA

³Department of Applied Chemistry Teaching and Research, Guangxi Vocational University of Agriculture, Nanning 530007, China

*Corresponding author.

E-mail addresses: guanyifu@gxmzu.edu.cn (Y. G.), llw@ncat.edu (L. W.), bianhd@gxmzu.edu.cn (H. B.).

[†]These authors contributed equally to this work.

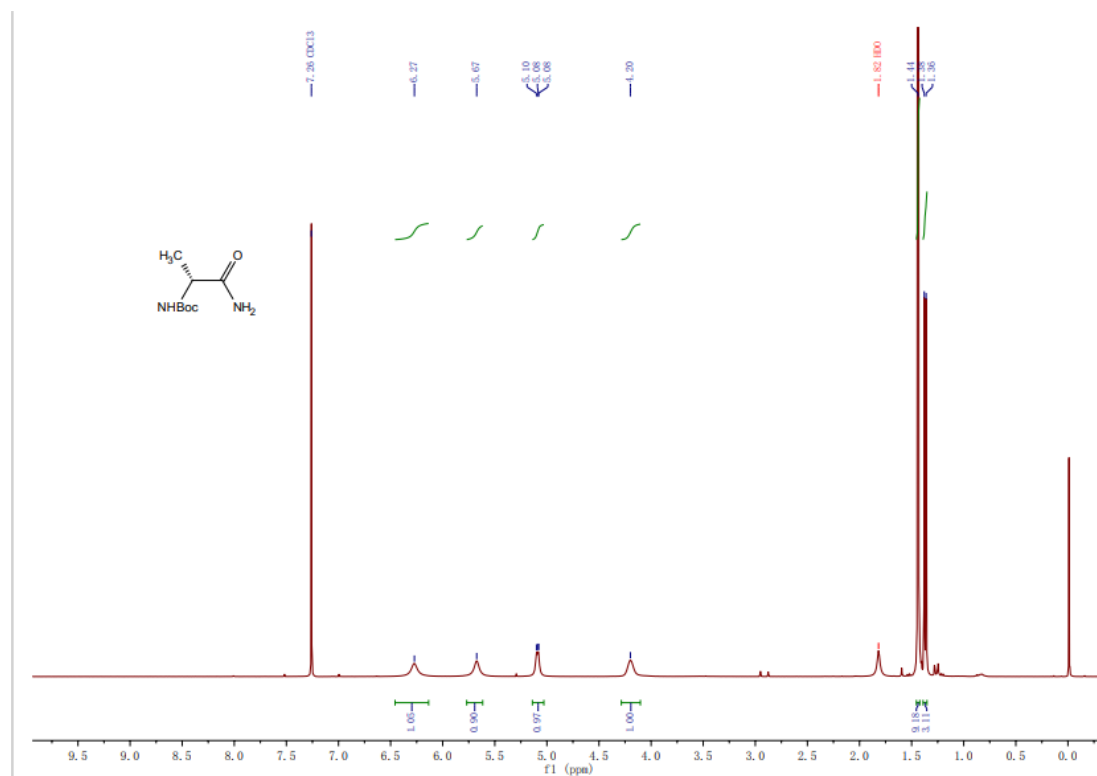


Figure S1 ¹H NMR of compound 14

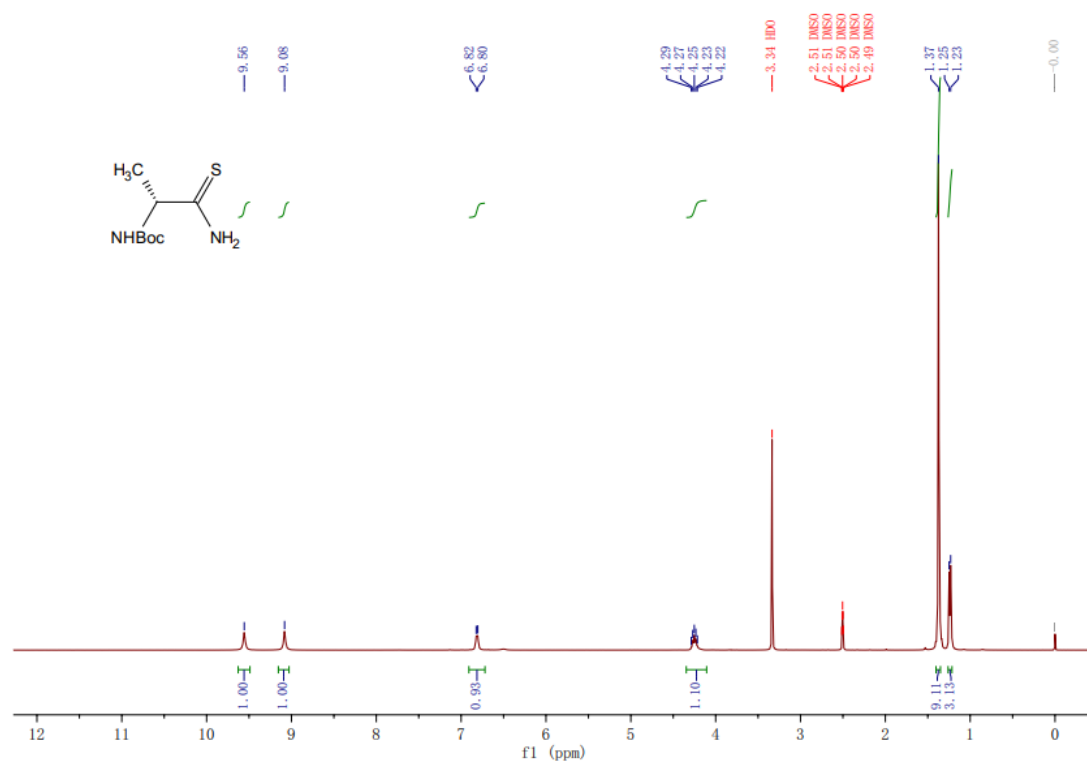


Figure S2 ¹H NMR of compound 15

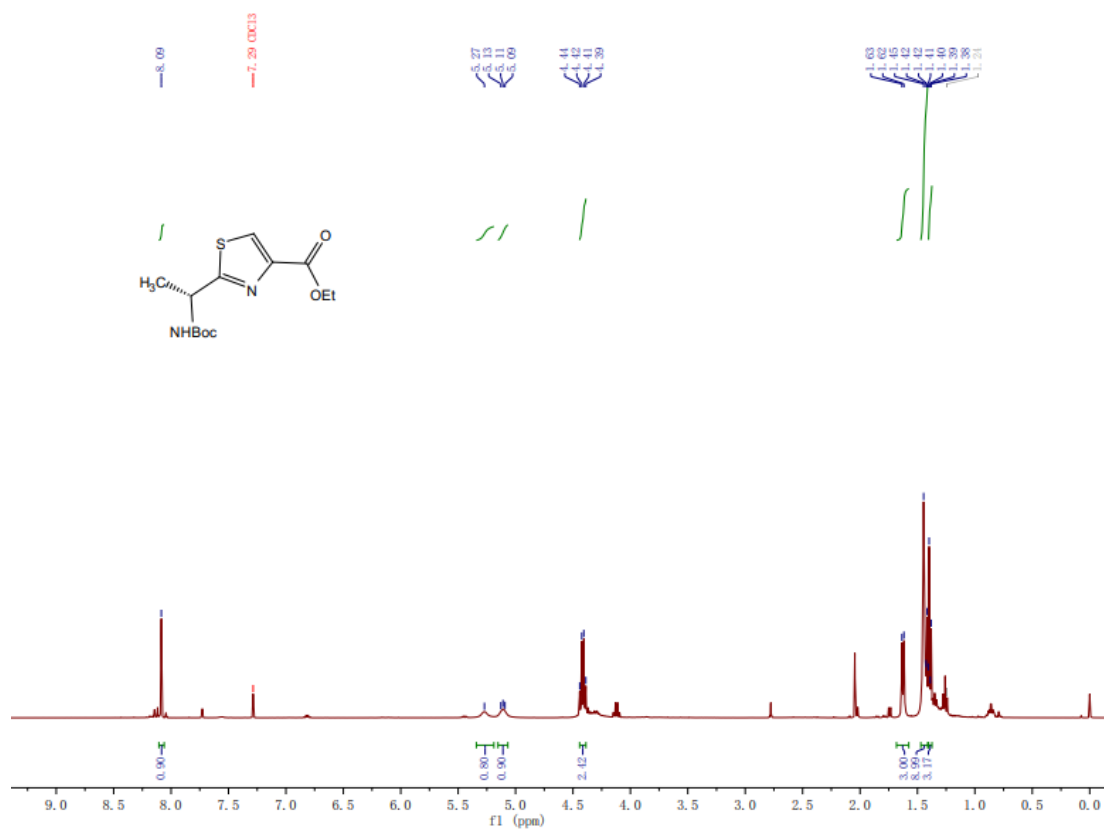


Figure S3 ¹H NMR of compound 16

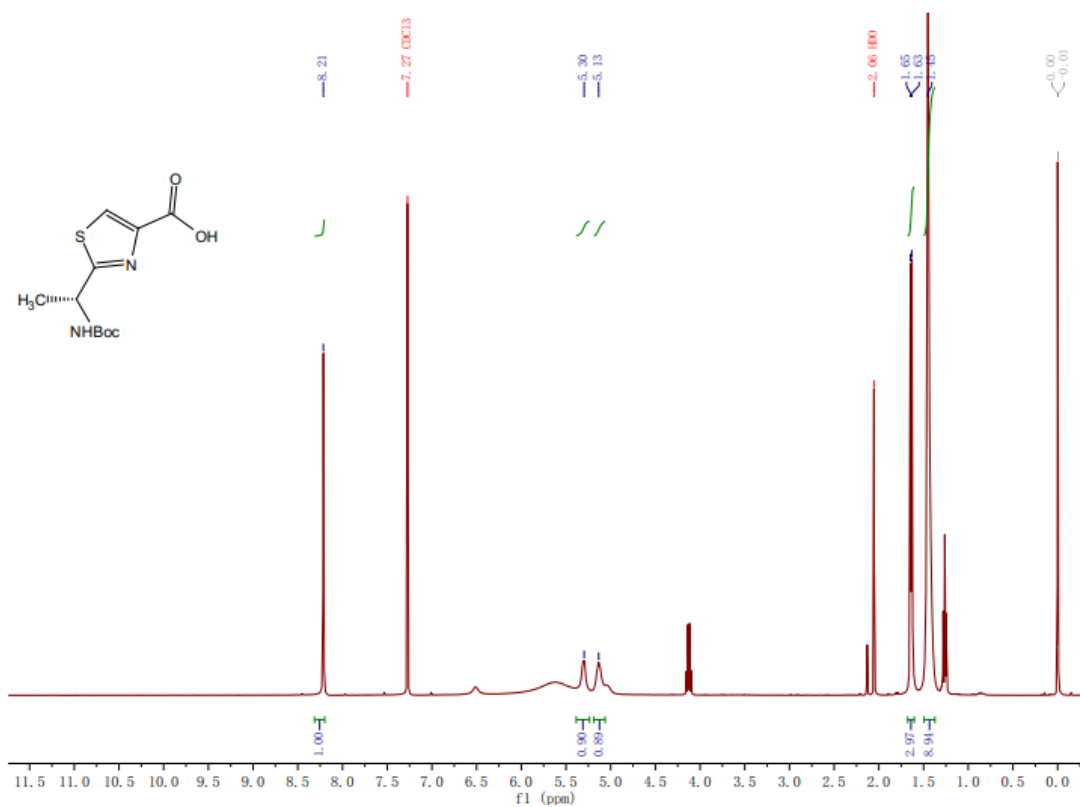
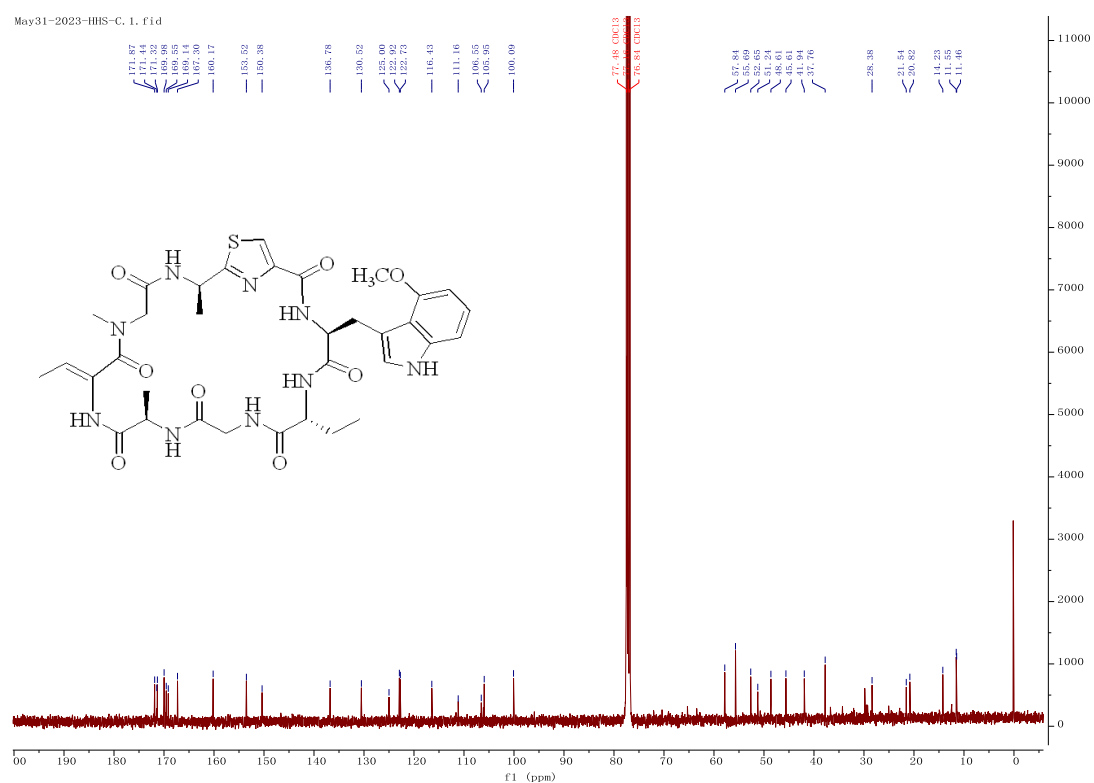
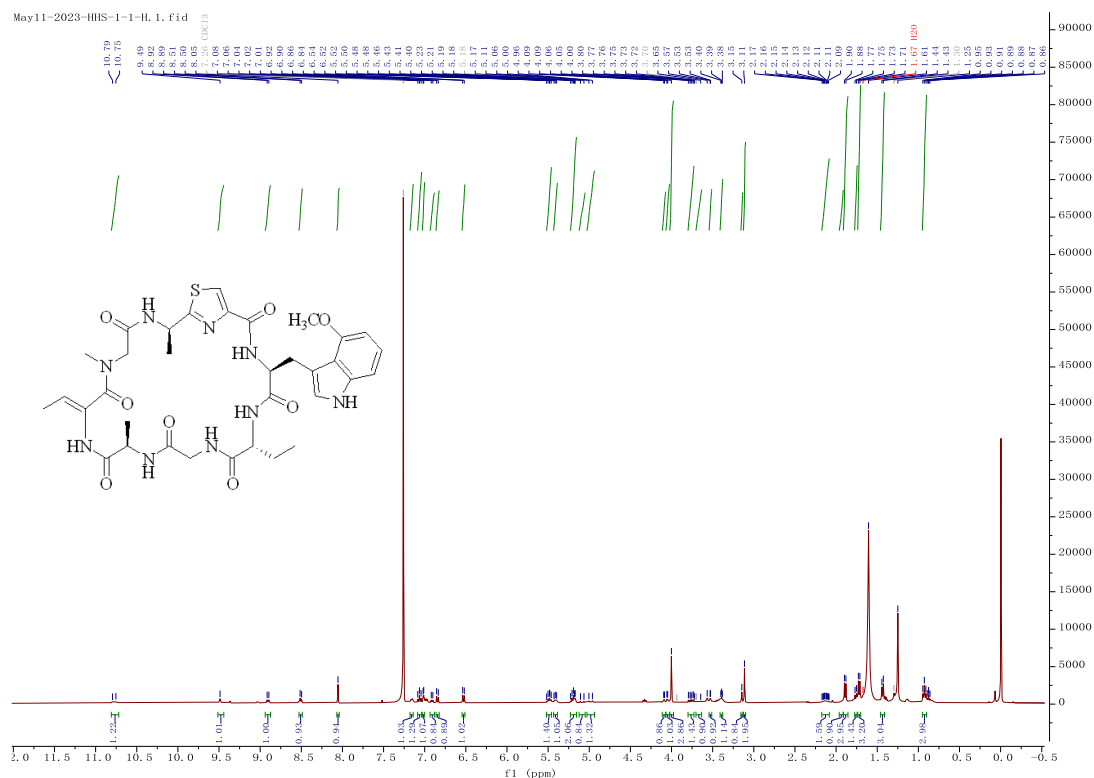
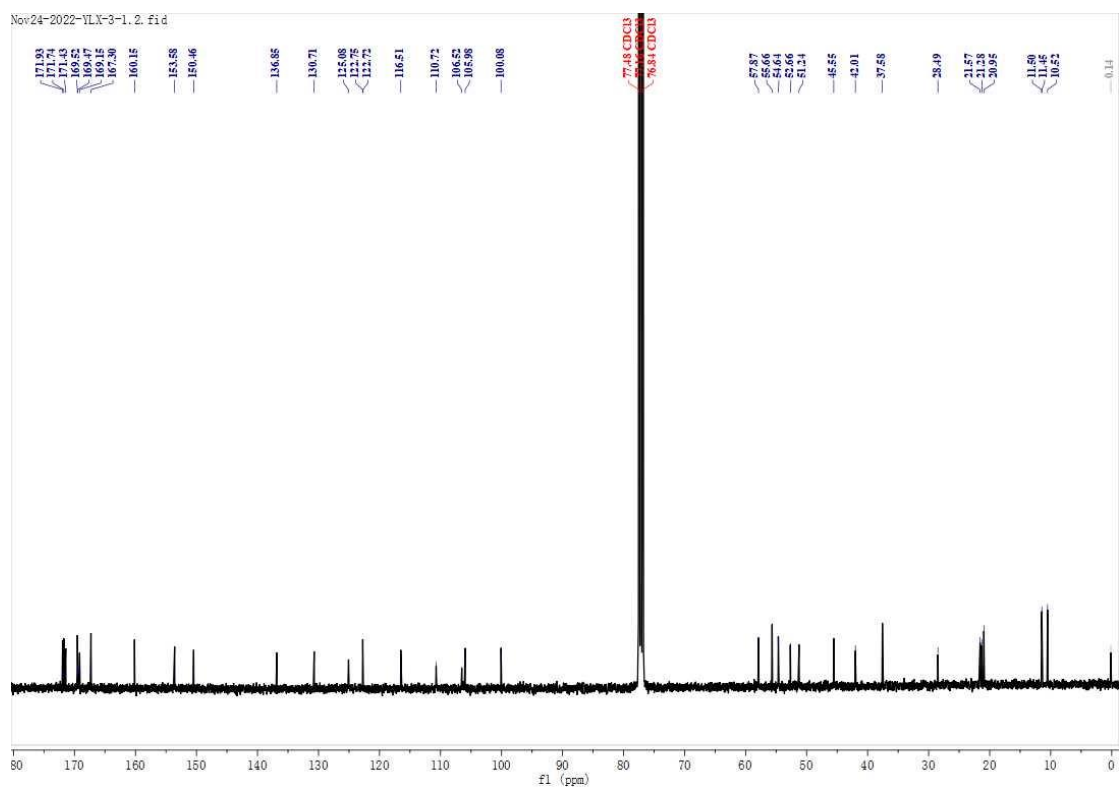
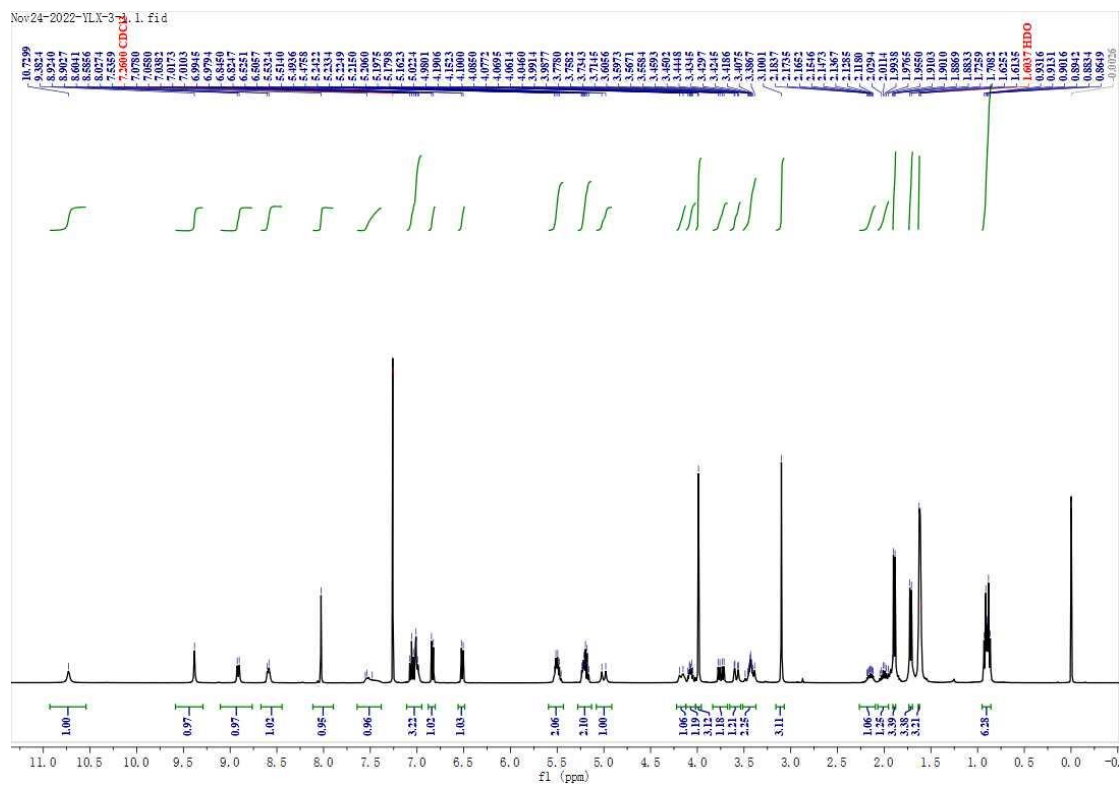
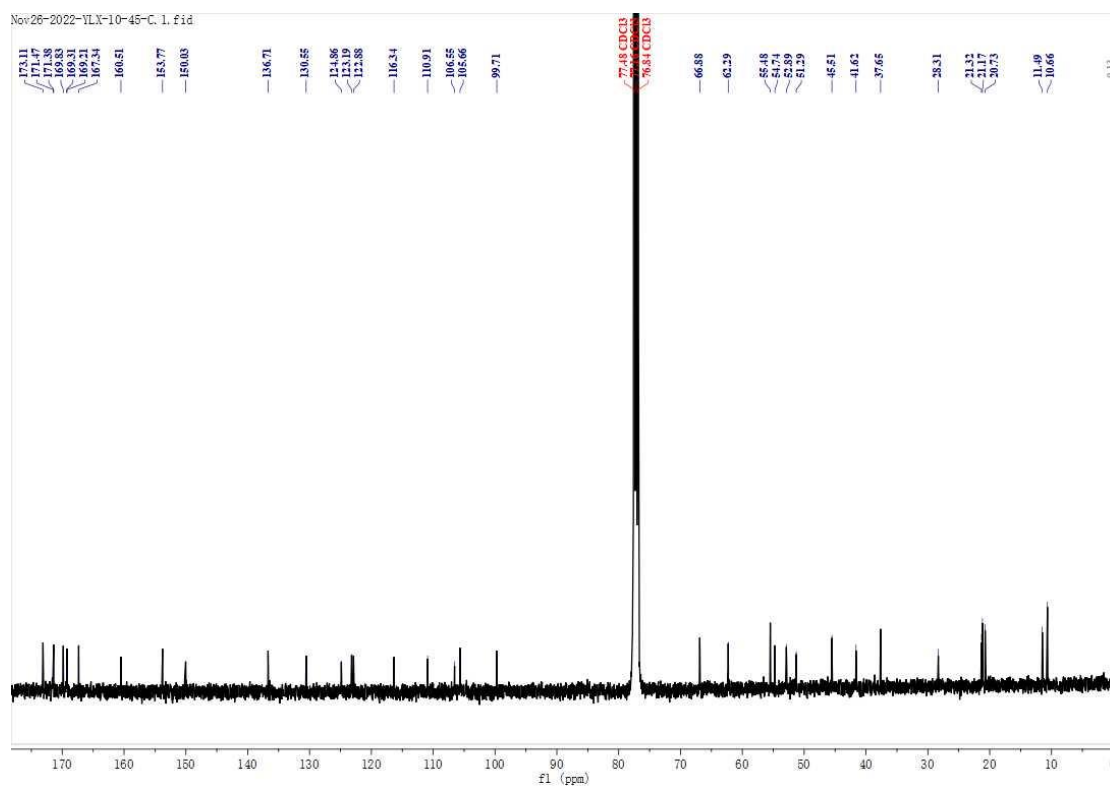
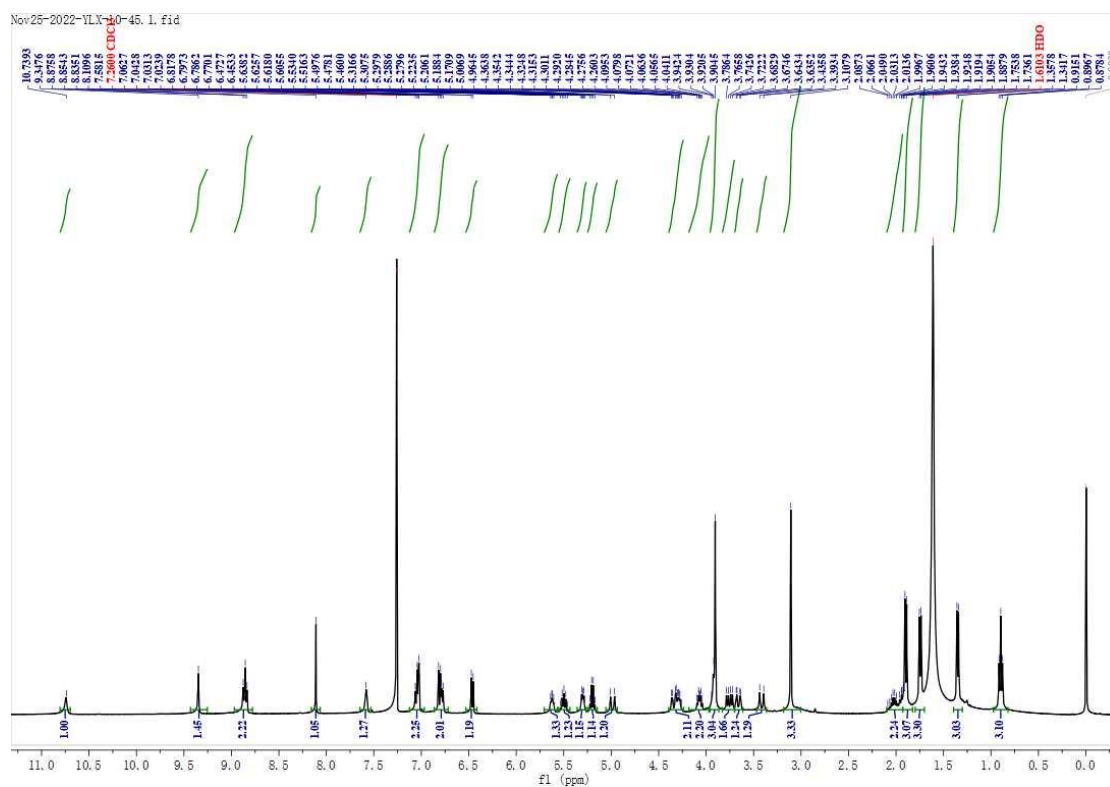


Figure S4 ¹H NMR of compound 13







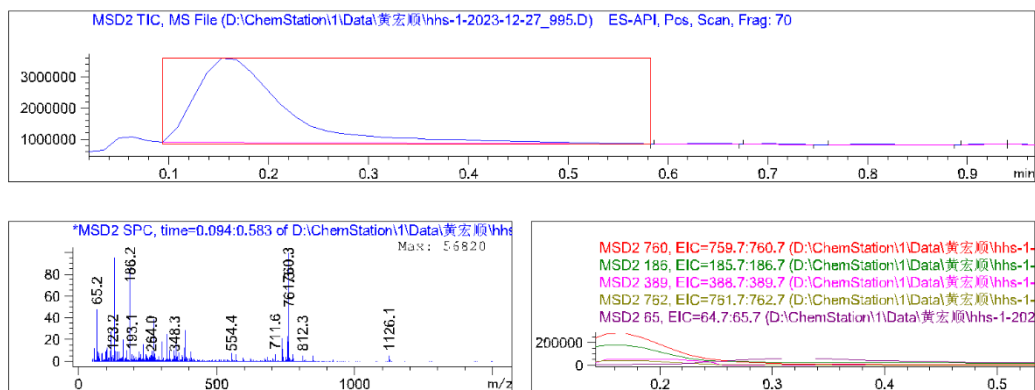


Figure S11 ESIMS of compound of compound **21**

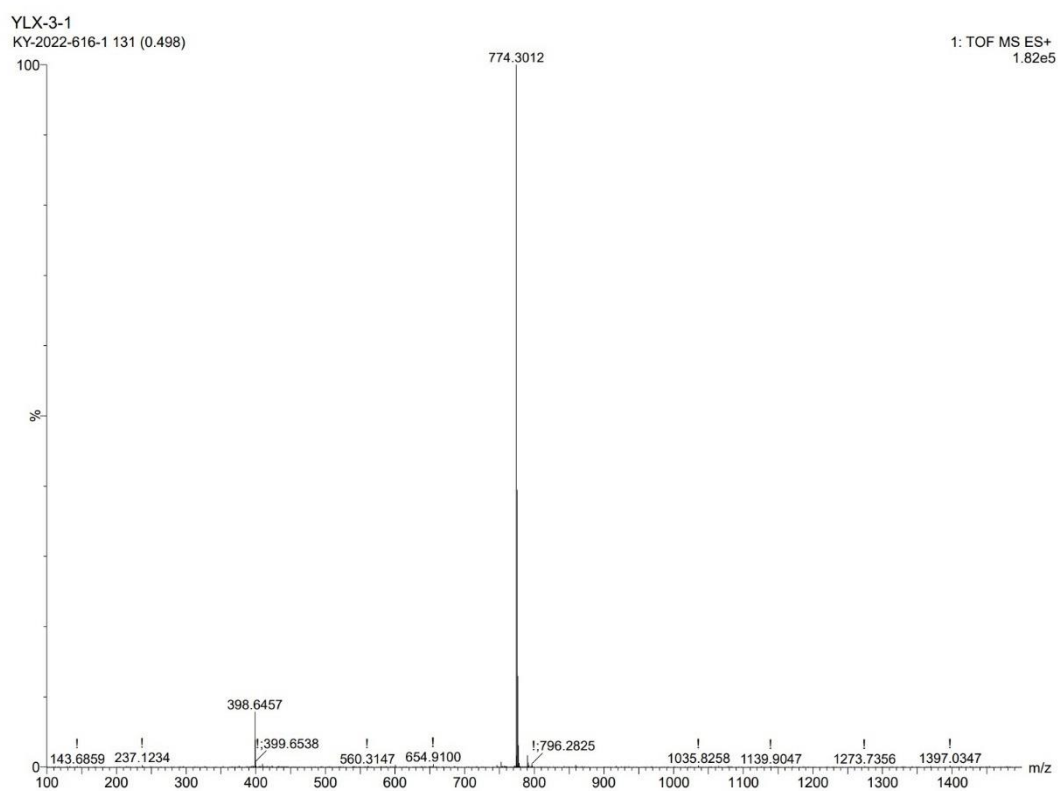


Figure S12 HRESITOFMS of compound **22**

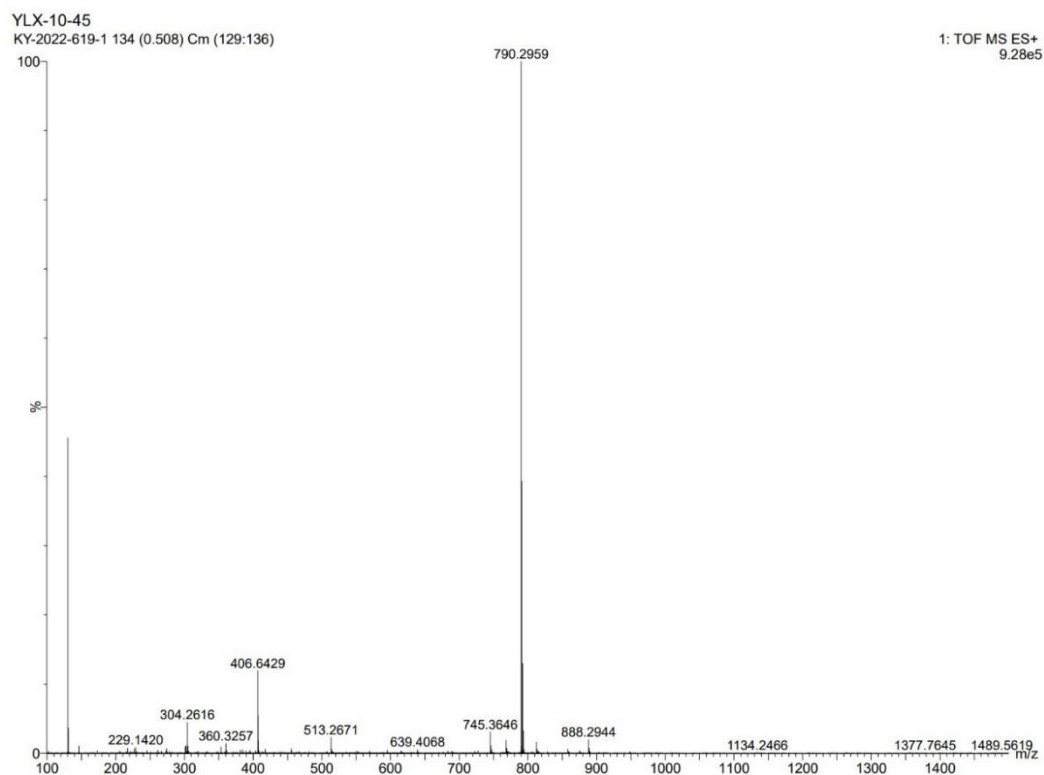


Figure S13 HRESITOFMS of compound **23**

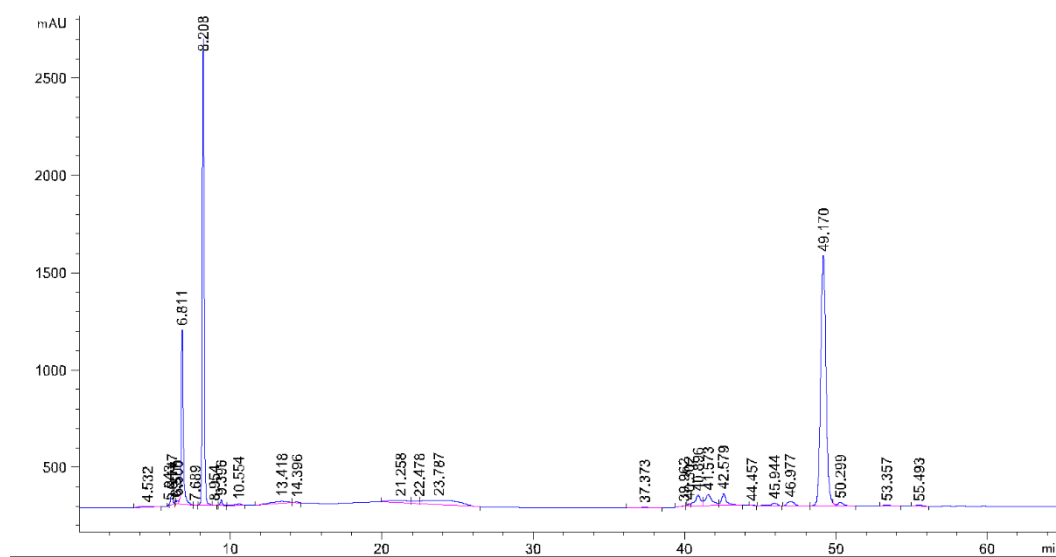


Figure S14 preparative HPLC of compound **21** (product: 49.17 min)

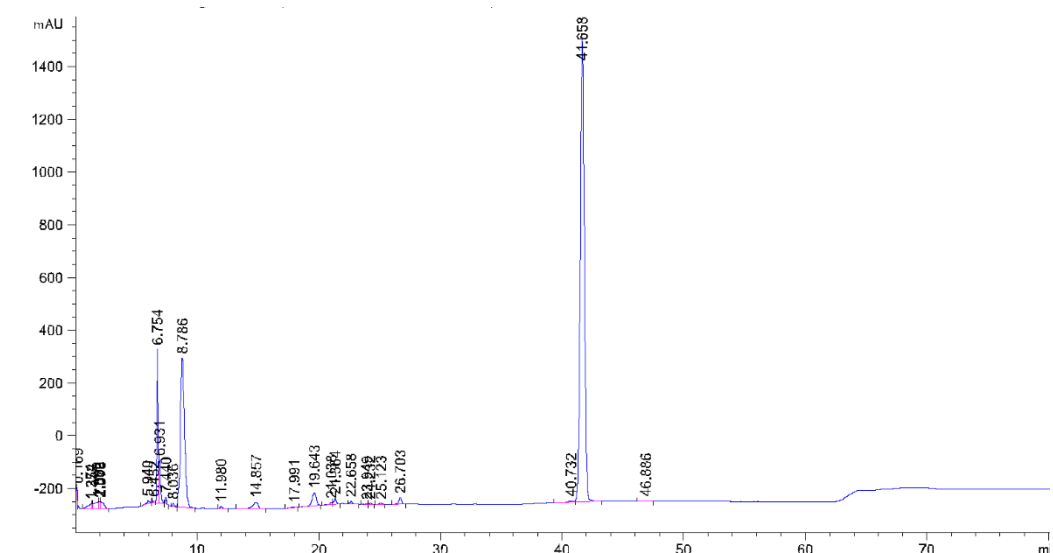


Figure S15 preparative HPLC of compound **22** (product: 41.66 min)

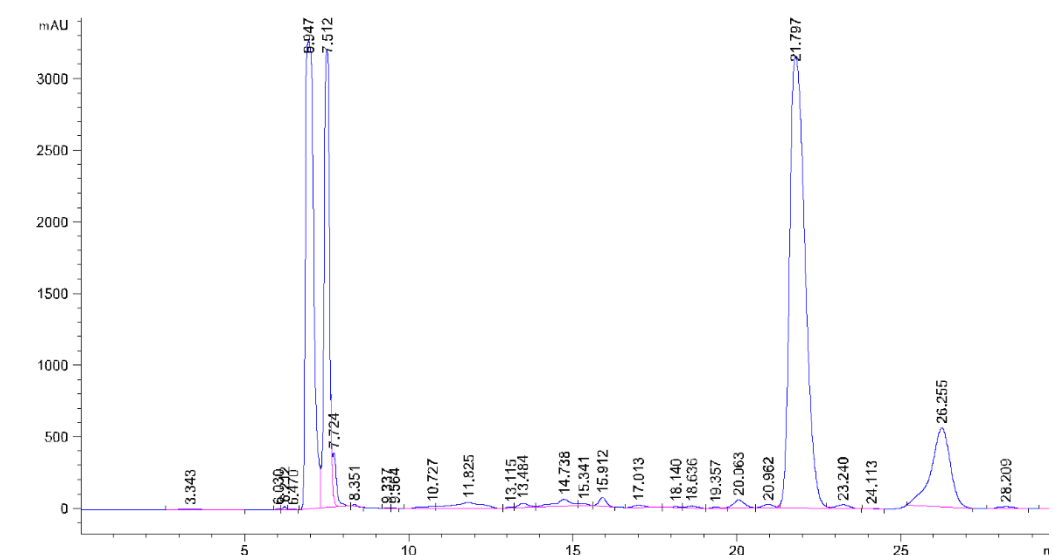


Figure S16 preparative HPLC of compound **23** (product: 21.80 min)