

Supporting information

Synthesis and Biological Evaluation of NH_2 -Sulfonyl Oseltamivir Analogues as Influenza Neuraminidase Inhibitors

Yaping Hu¹, Binfeng Chen¹, Zaiqiang Lei¹, Hongqian Zhao¹, Hongxi

Zhu¹, Peng Quan^{2,*}, Yongshou Tian^{1,*}

¹ *Key Laboratory of Structure-Based Drug Design and Discovery, Ministry of Education, School of Pharmaceutical Engineering, Shenyang Pharmaceutical University, Shenyang 110016, Liaoning, China; hyp910309@163.com (Y.H); yh_cbf@163.com (B.C); ZaiqiangLei@126.com (Z.L); zhaohongqian999@163.com (H.Z); 13125557362@163.com (H.Z.)*

² *School of Pharmacy, Shenyang Pharmaceutical University, Shenyang 110016, Liaoning, China*

* Correspondence: quanpeng81@163.com (P.Q.); tianys@syphu.edu.cn (Y.T.);

Tel.: +86-24-4352-0511 (P.Q.); +86-24-4352-0511 (Y.T.)

The copies of spectrum for compounds 4a-4k and 6i-6k.

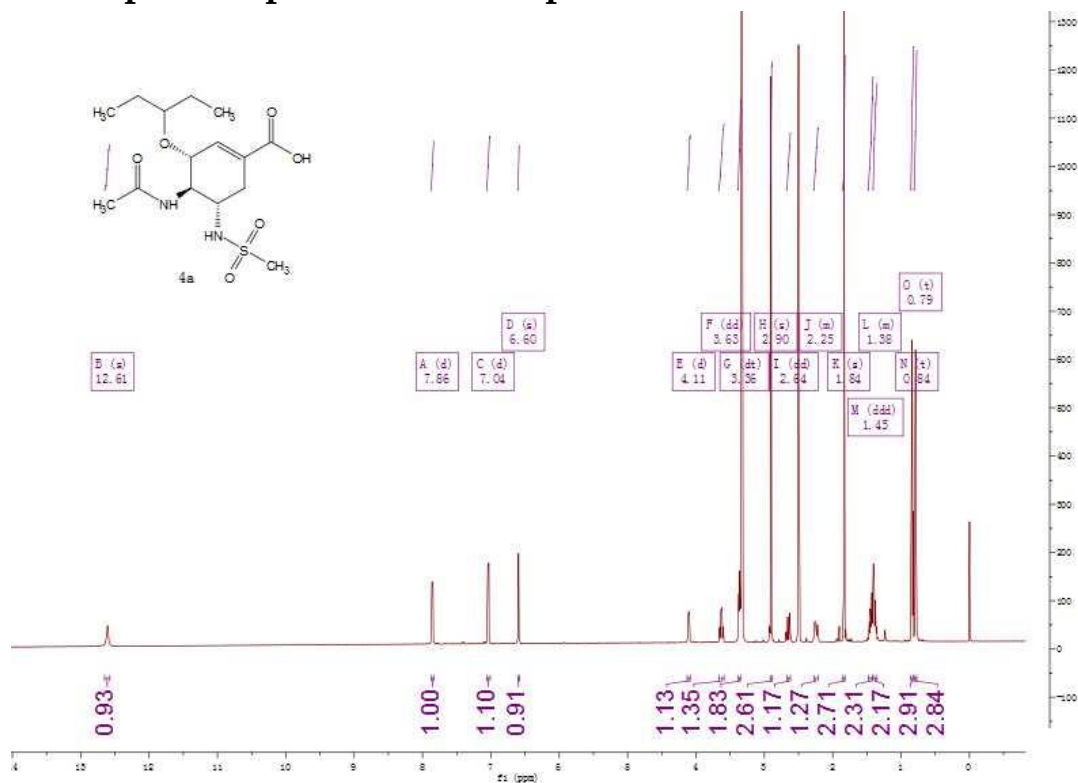


Figure S1. ¹H-NMR of compound 4a.

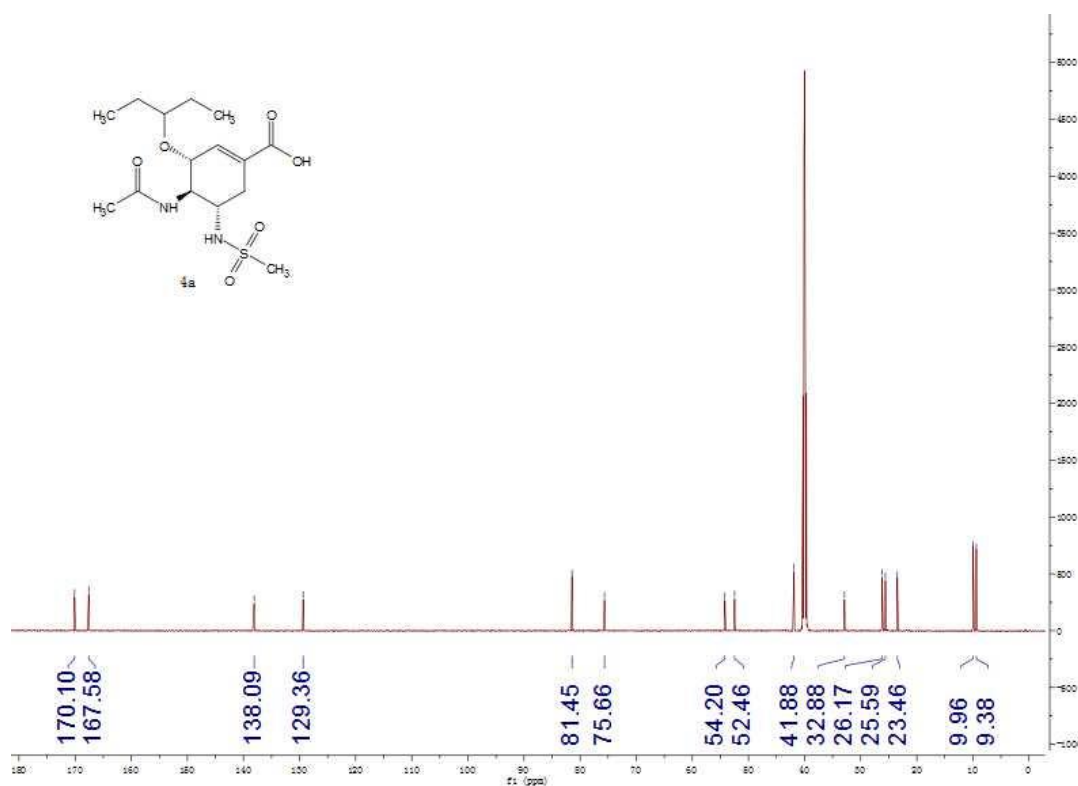


Figure S2. ¹³C-NMR of compound 4a.

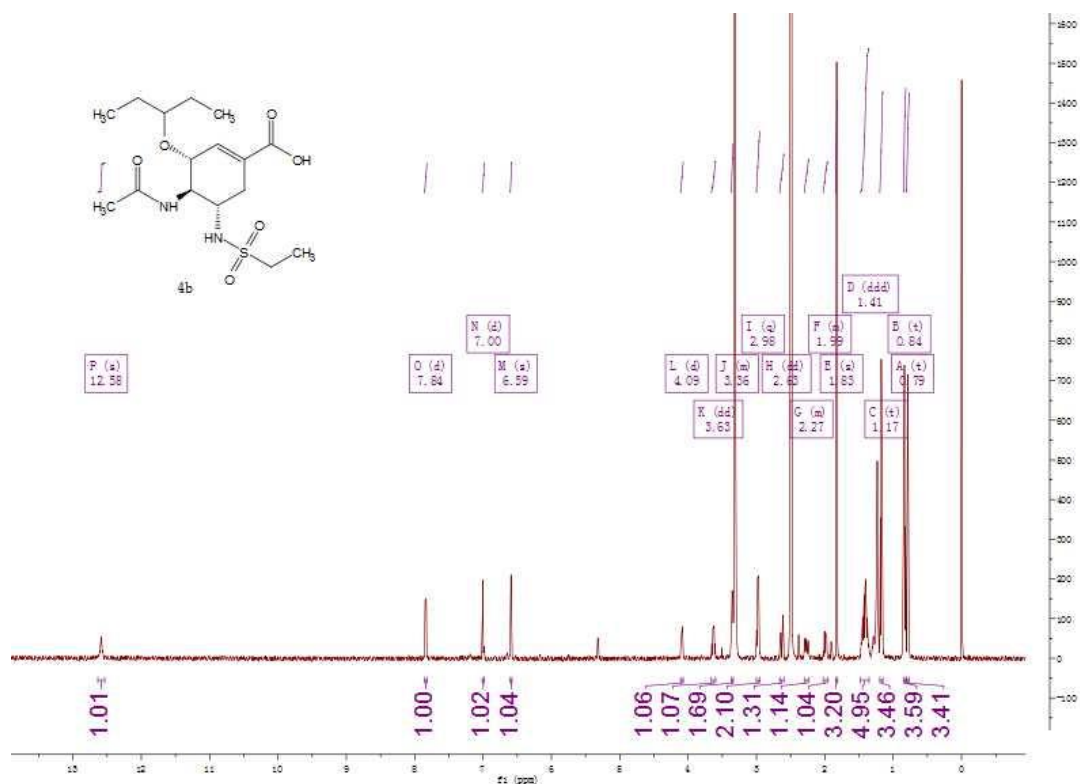


Figure S3. ¹H-NMR of compound 4b.

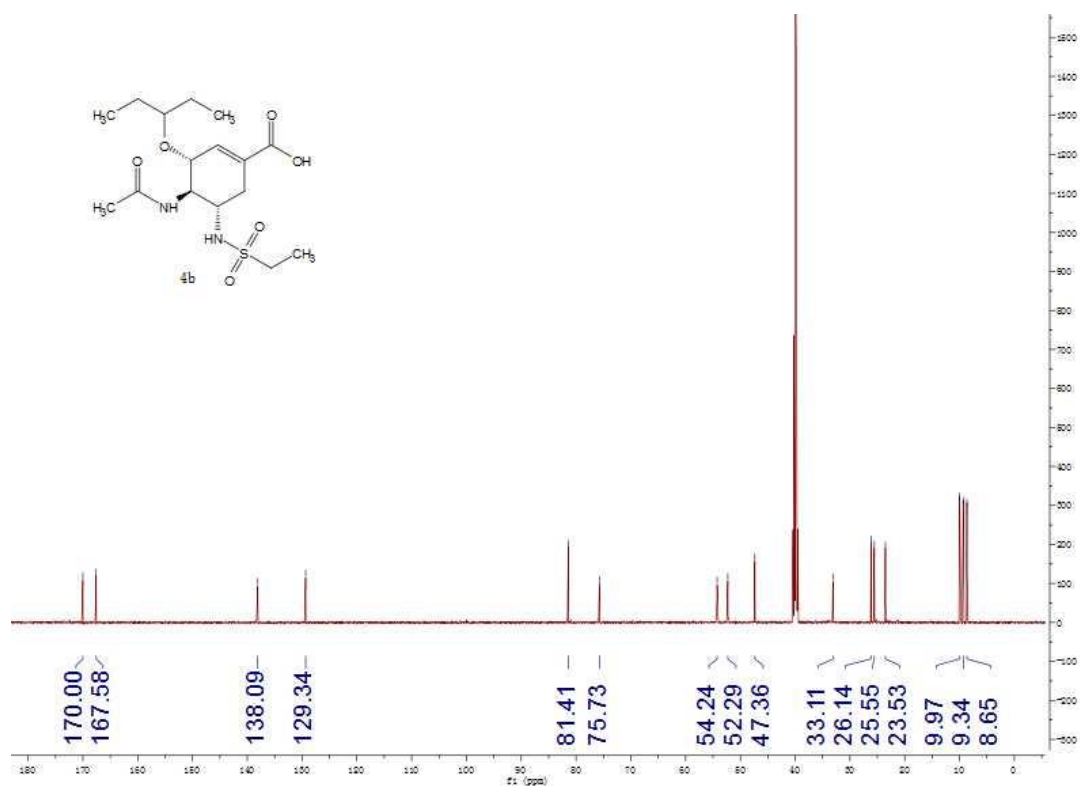


Figure S4. ¹³C-NMR of compound 4b.

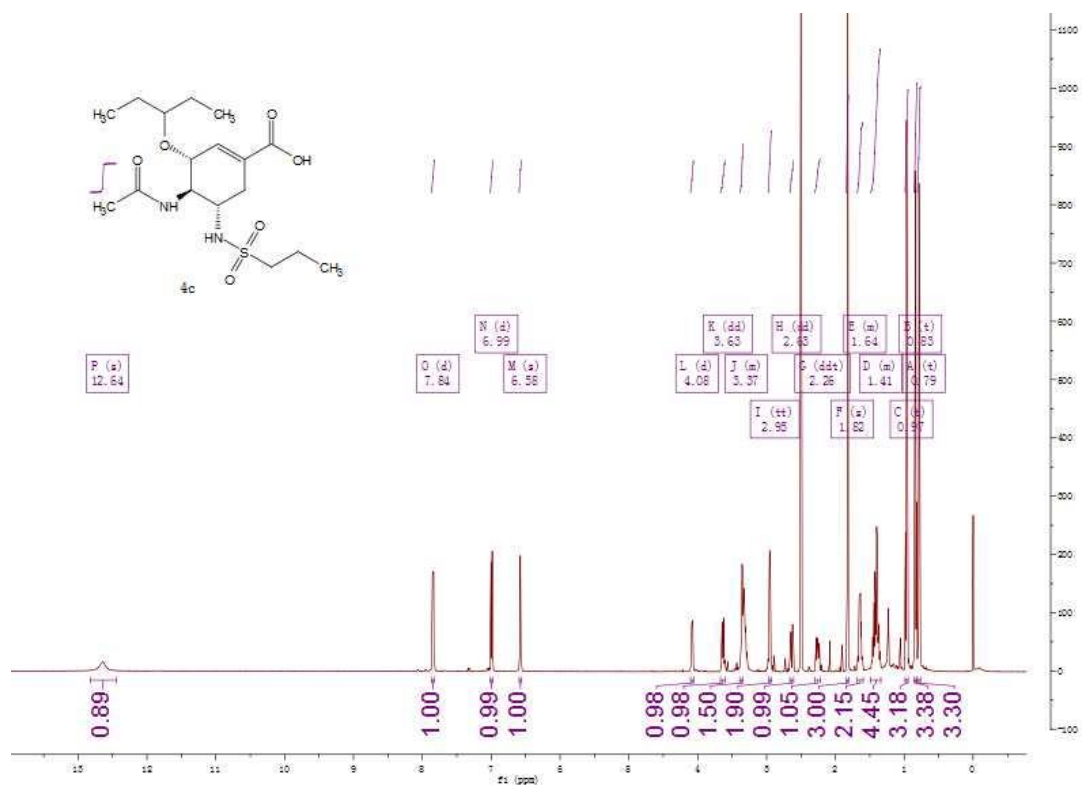


Figure S5. ¹H-NMR of compound 4c.

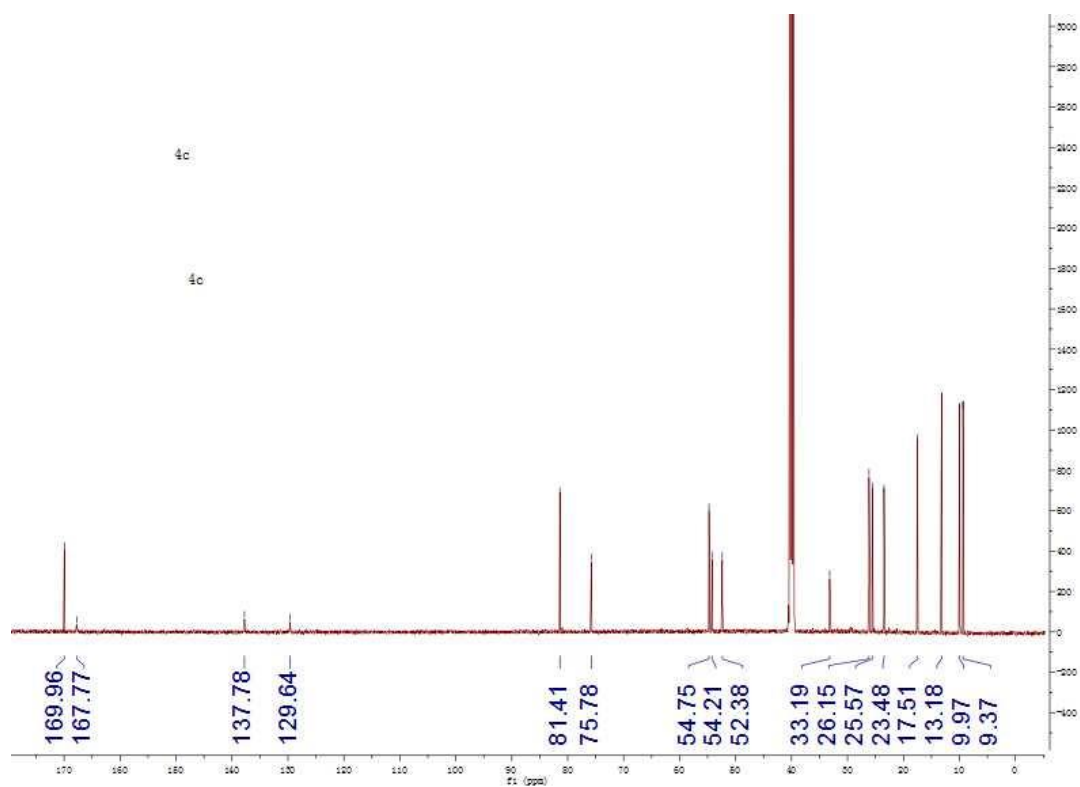


Figure S6. ¹³C-NMR of compound 4c.

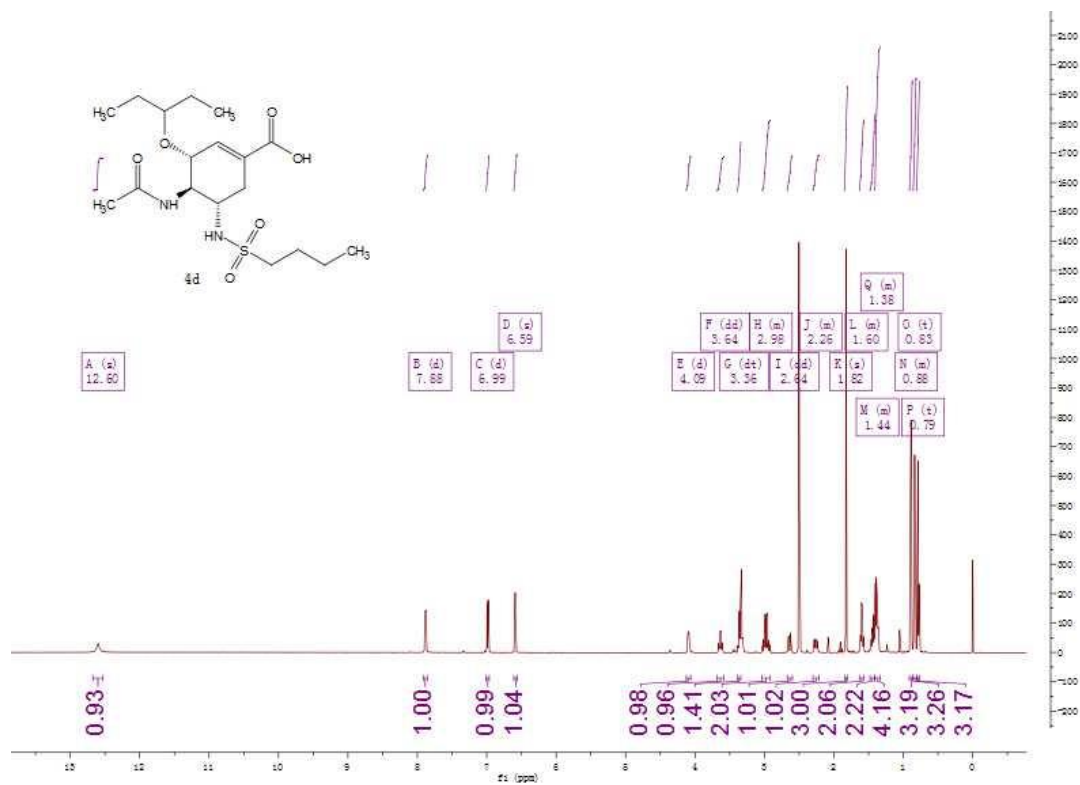


Figure S7. ¹H-NMR of compound 4d.

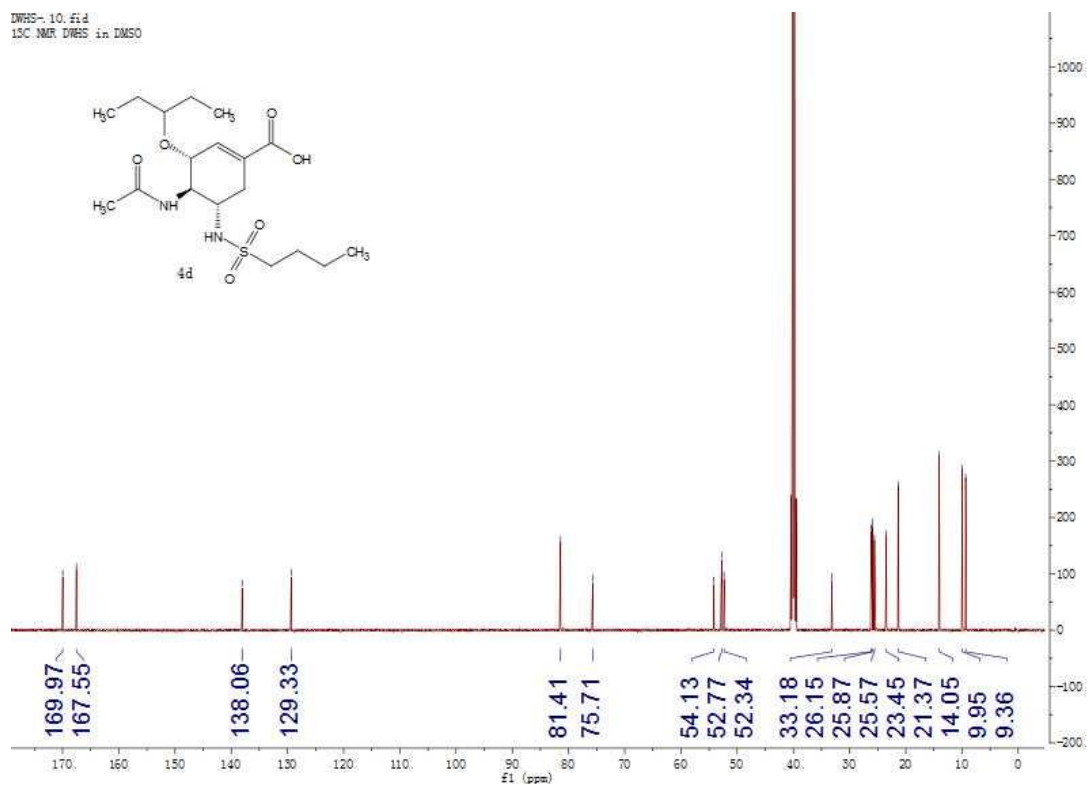


Figure S8. ¹³C-NMR of compound 4d.

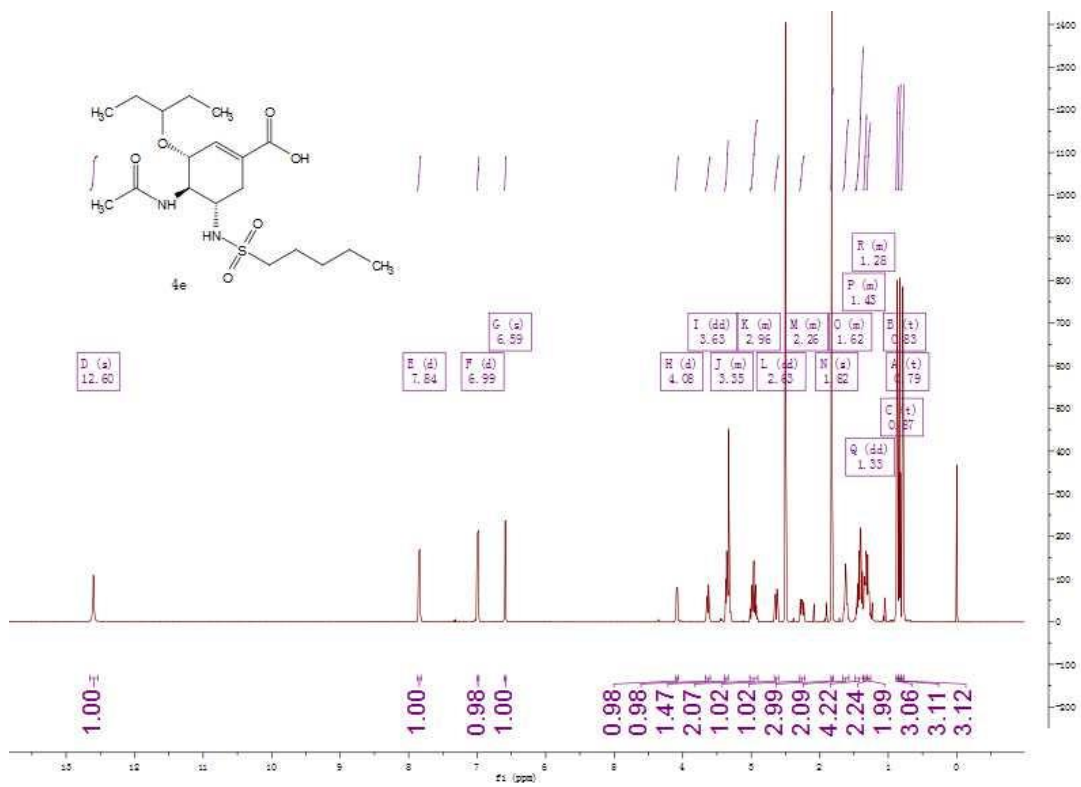


Figure S9. ¹H-NMR of compound 4e.

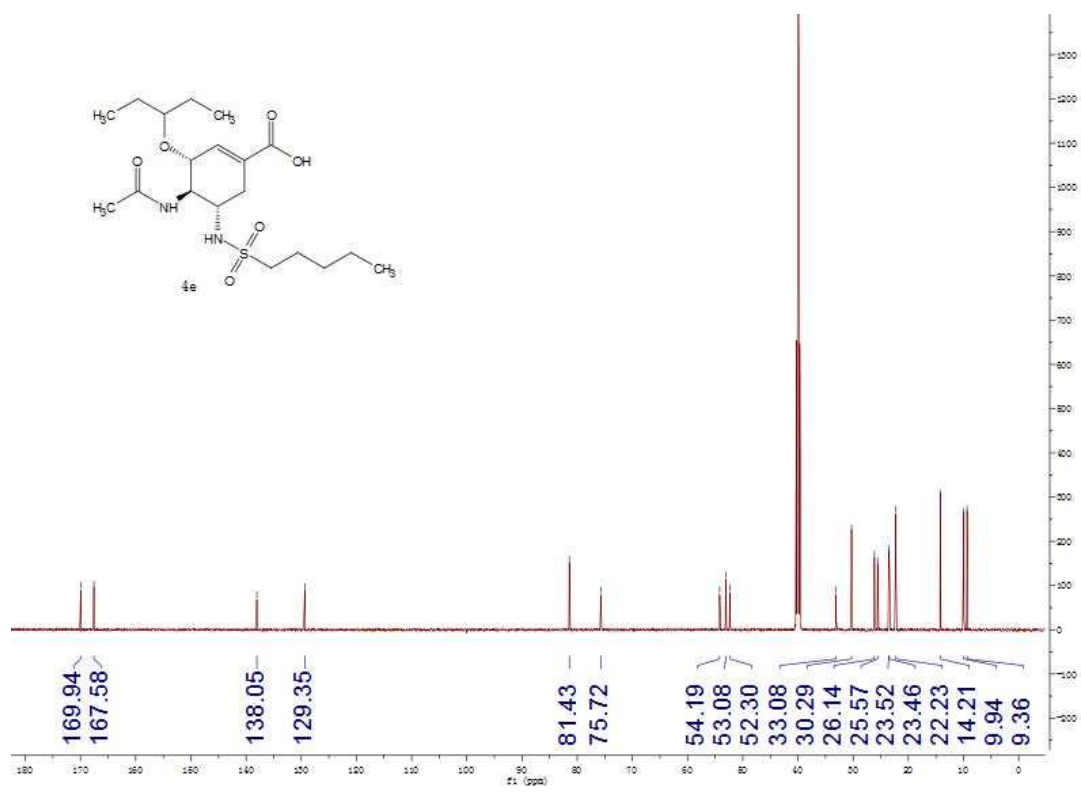


Figure S10. ¹³C-NMR of compound 4e.

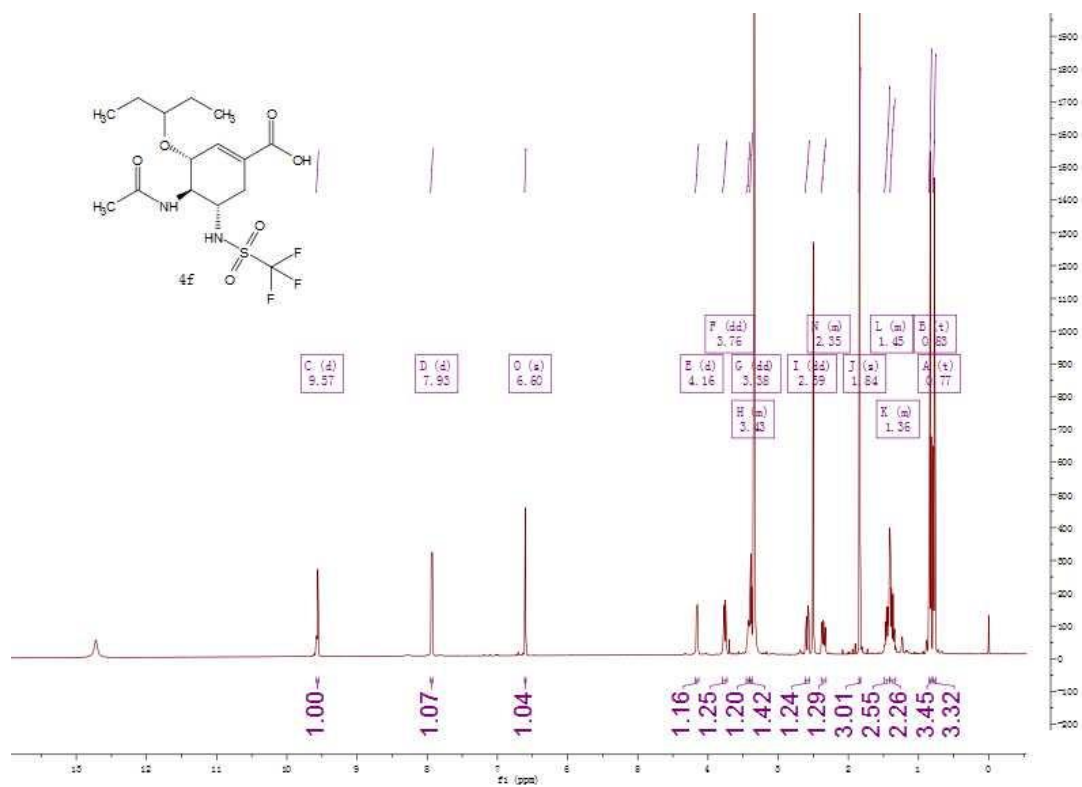


Figure S11. ¹H-NMR of compound 4f.

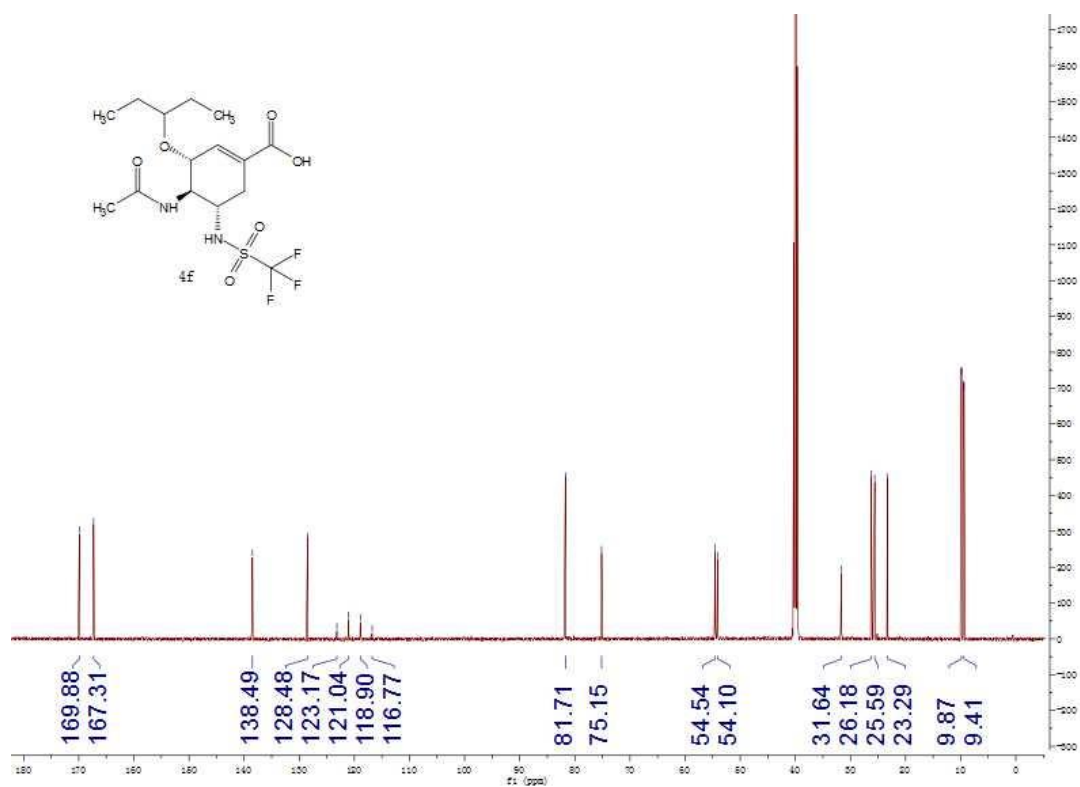


Figure S12. ¹³C-NMR of compound 4f.

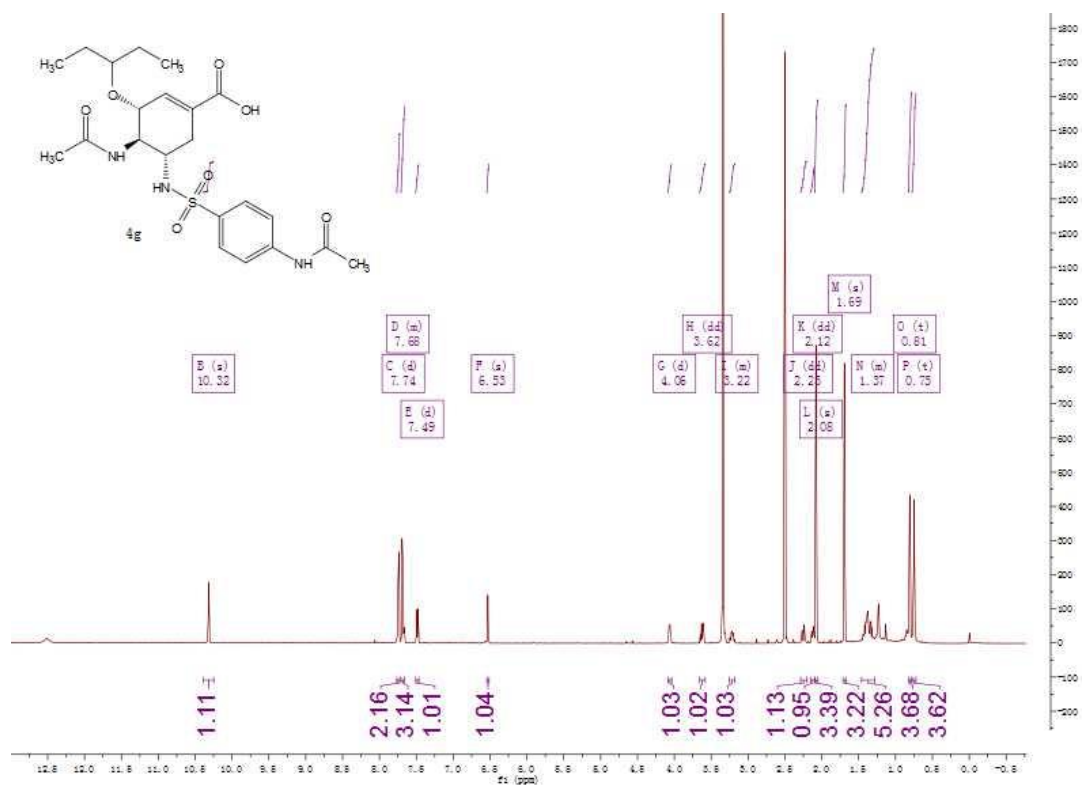


Figure S13. ¹H-NMR of compound 4g.

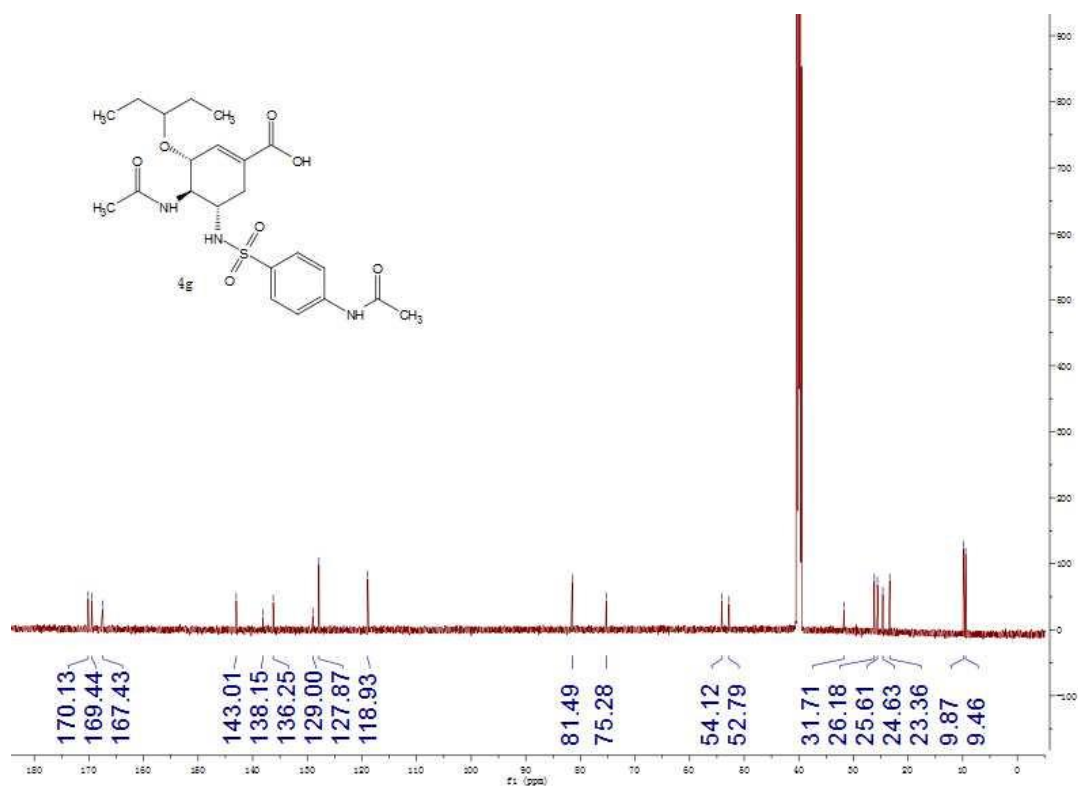


Figure S14. ¹³C-NMR of compound 4g.

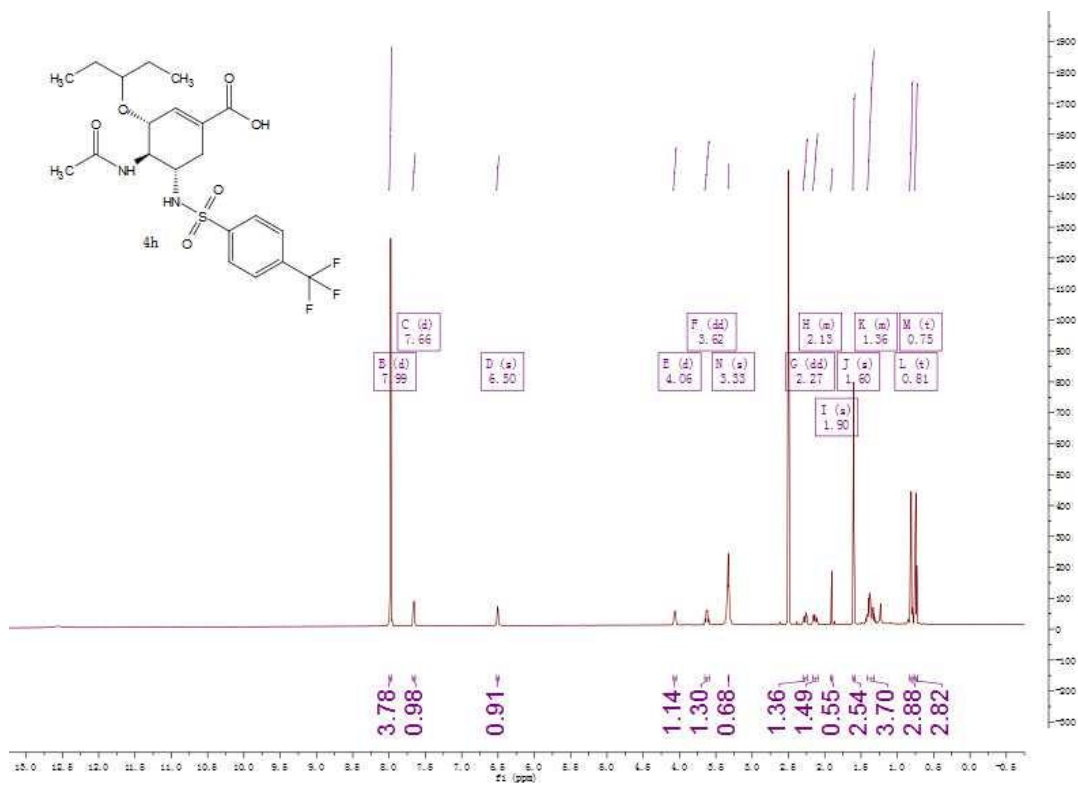


Figure S15. ¹H-NMR of compound 4h.

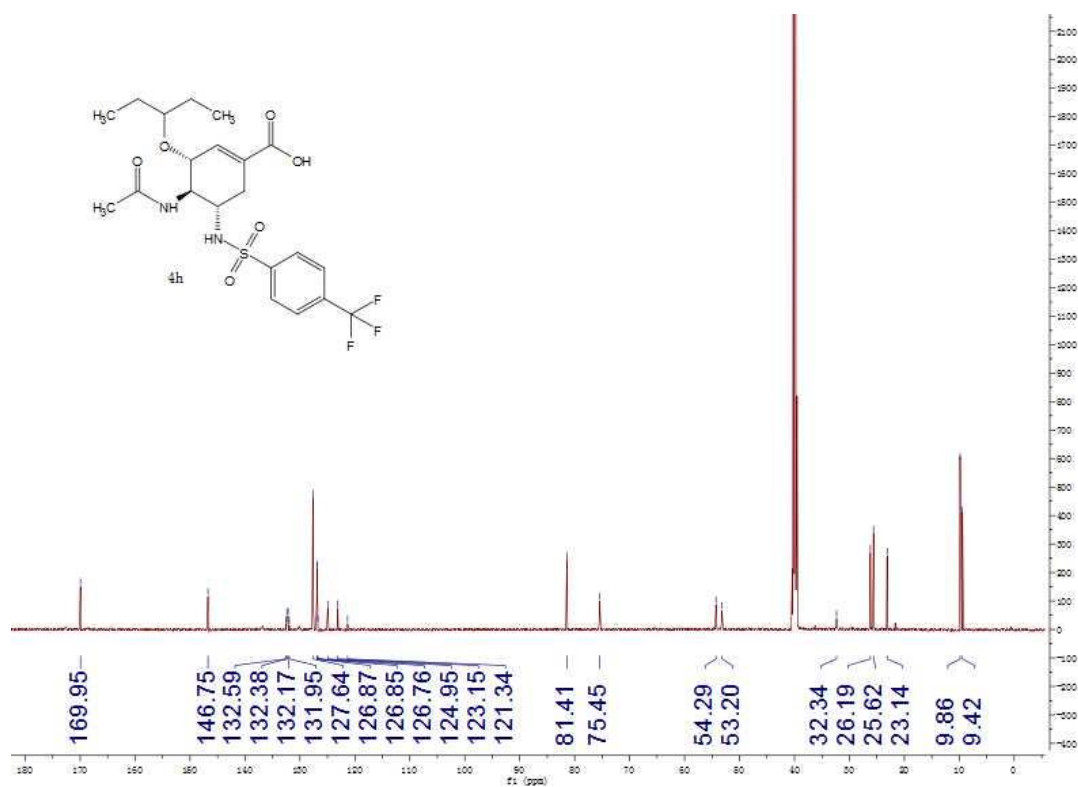


Figure S16. ¹³C-NMR of compound 4h.

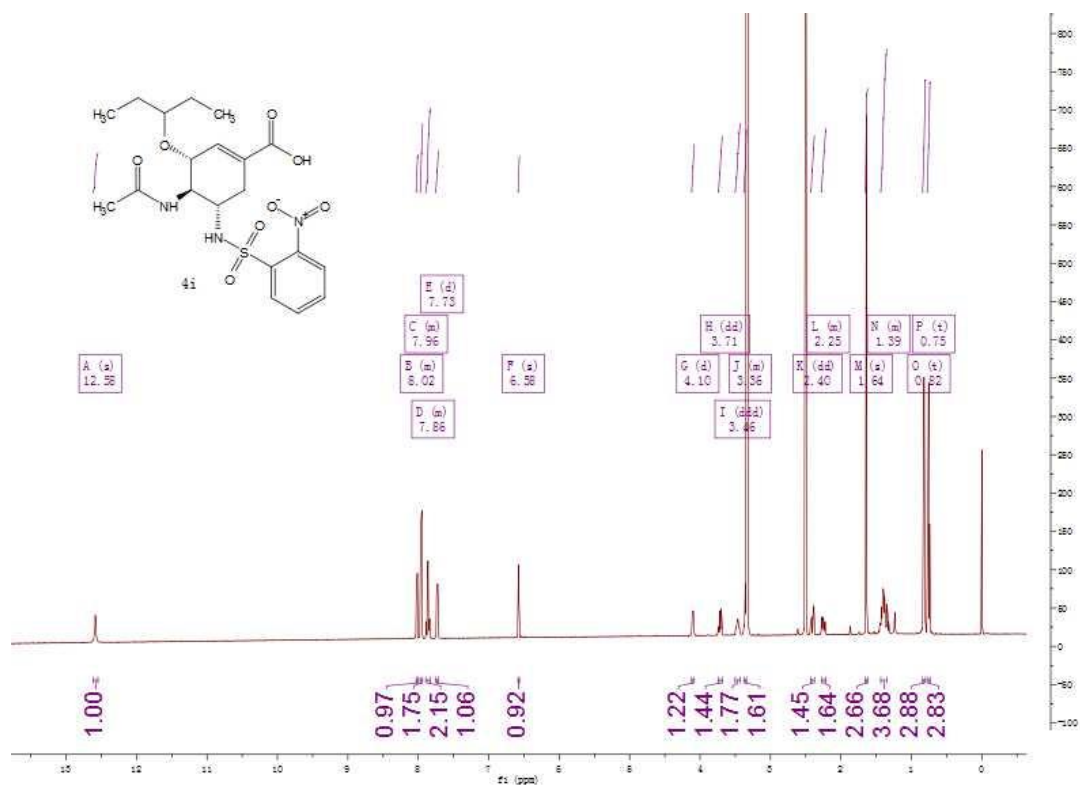


Figure S17. ¹H-NMR of compound 4i.

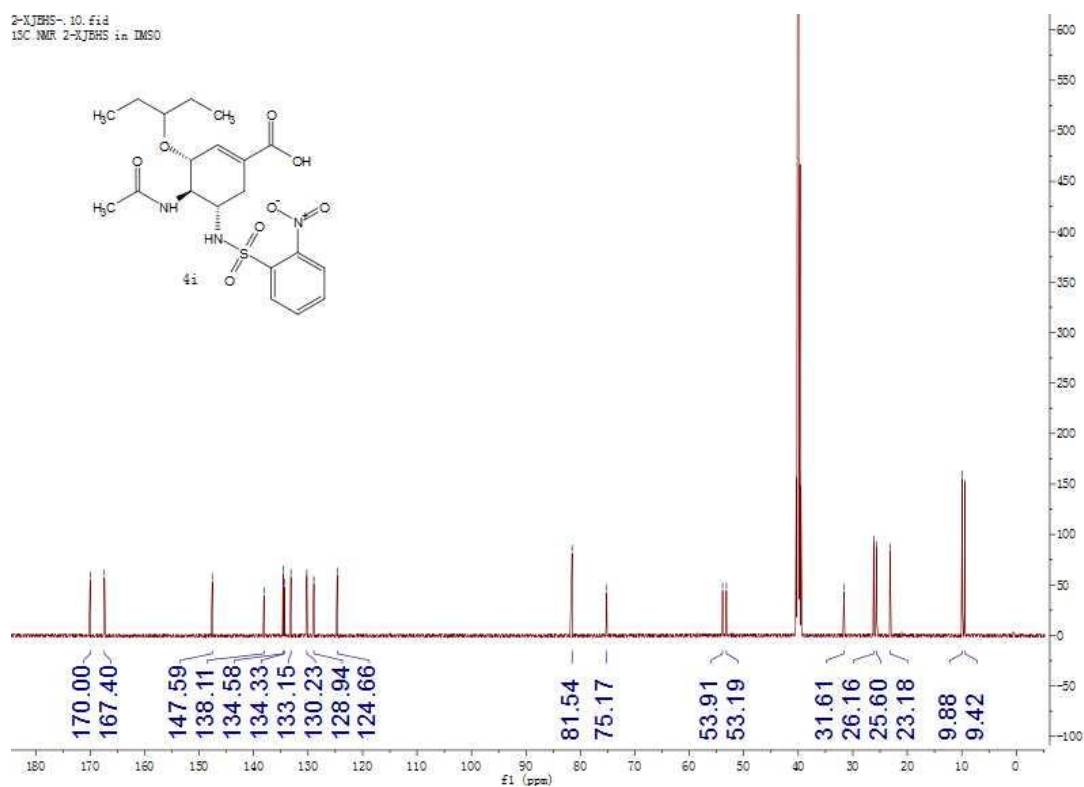


Figure S18. ¹³C-NMR of compound 4i.

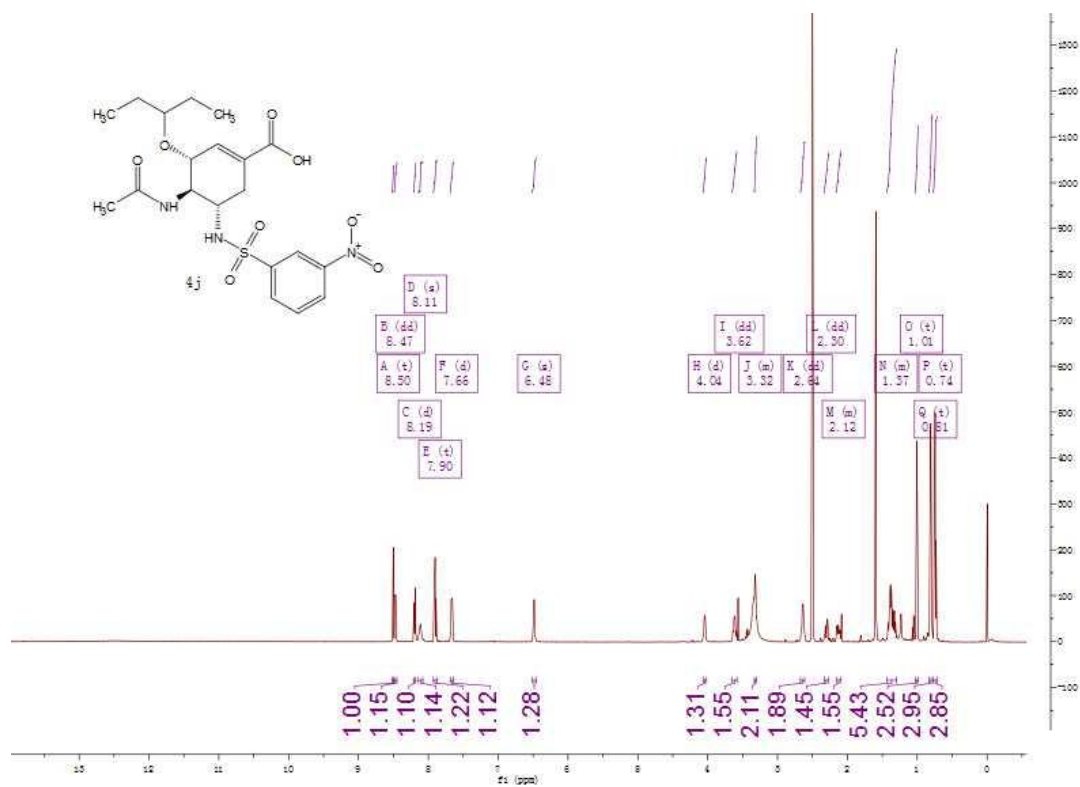


Figure S19. ¹H-NMR of compound 4j.

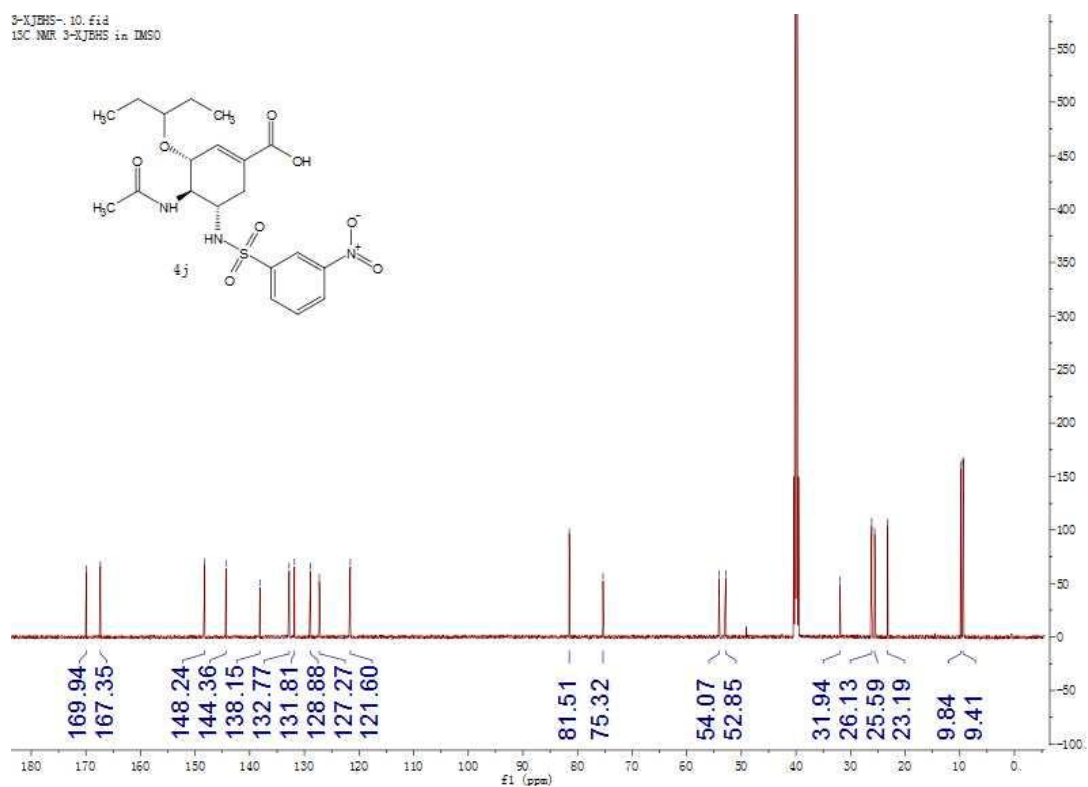


Figure S20. ¹³C-NMR of compound 4j.

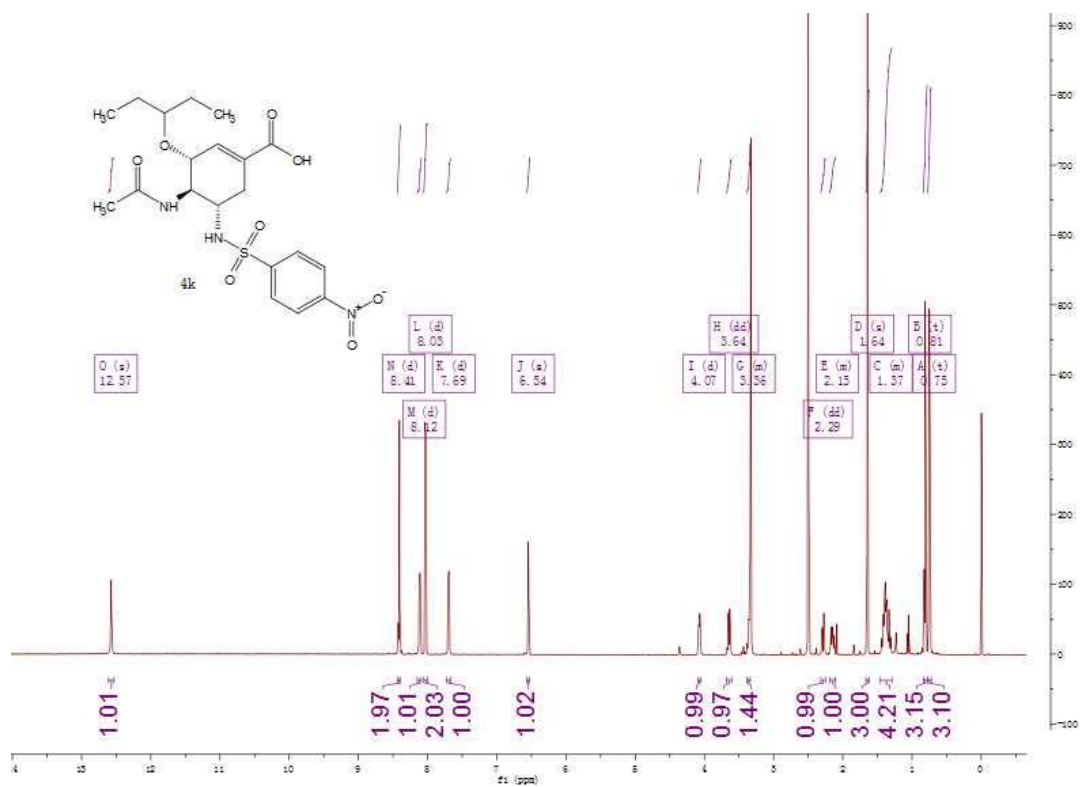


Figure S21. ¹H-NMR of compound 4k.

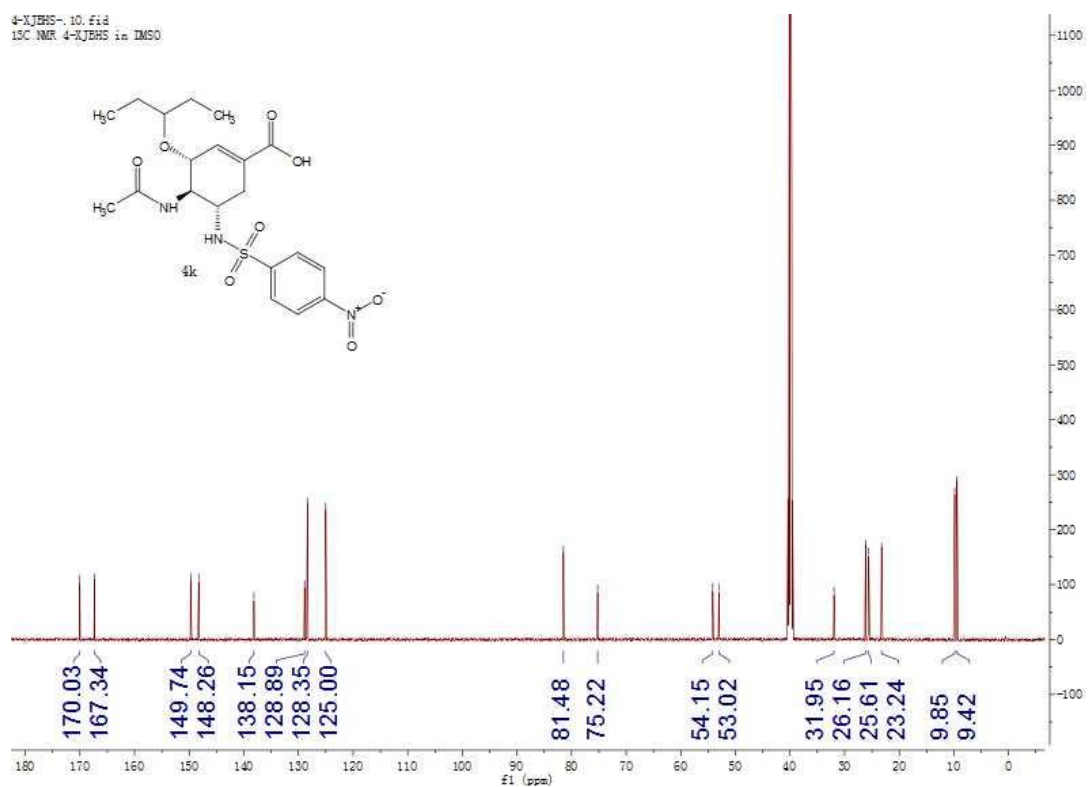


Figure S22. ¹³C-NMR of compound 4k.

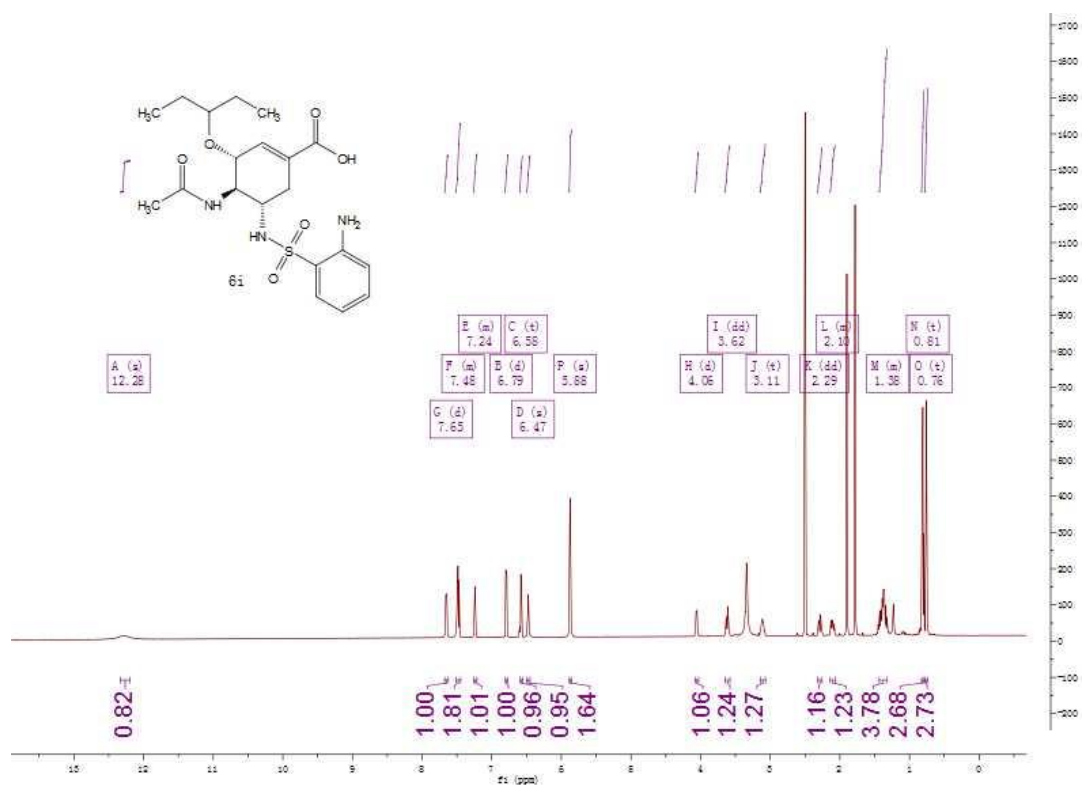


Figure S23. $^1\text{H-NMR}$ of compound 6i.

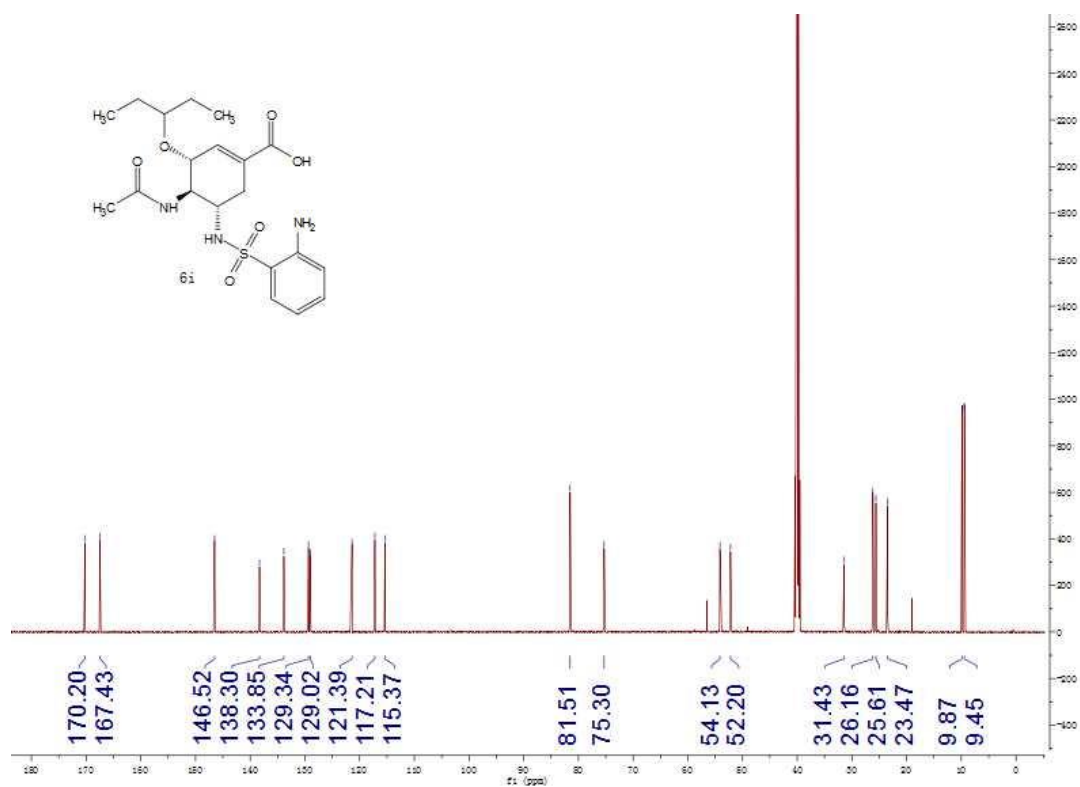


Figure S24. $^{13}\text{C-NMR}$ of compound 6i.

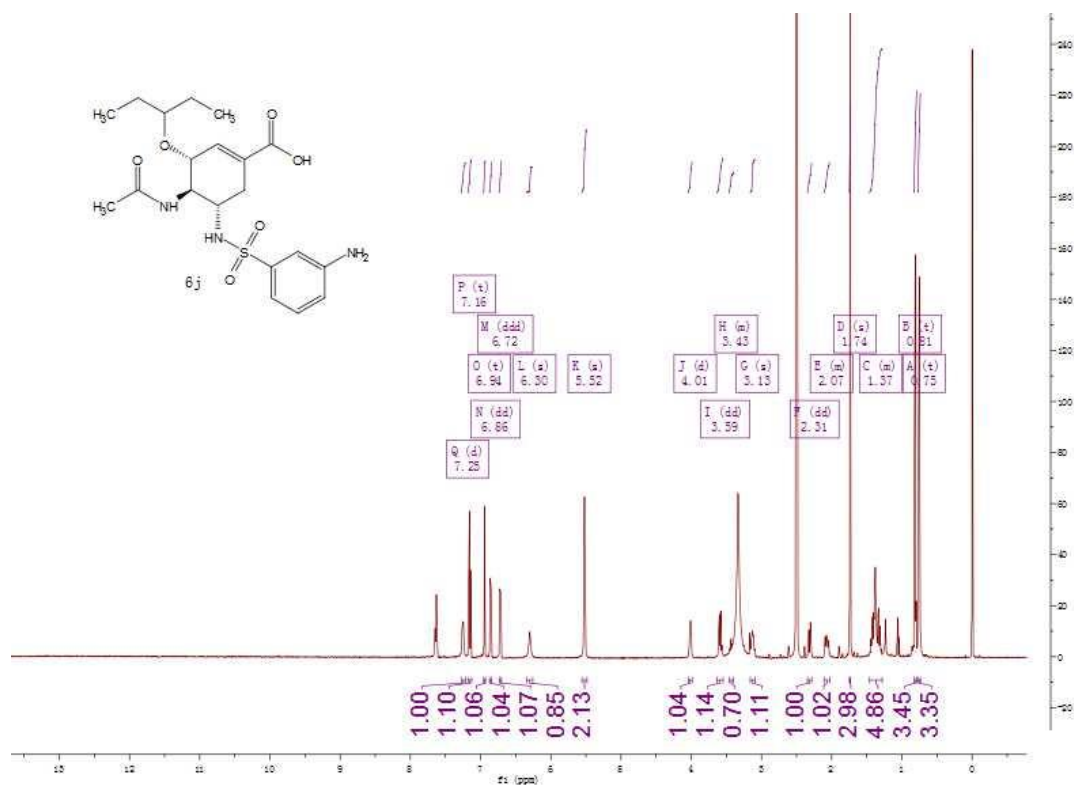


Figure S25. ¹H-NMR of compound 6j.

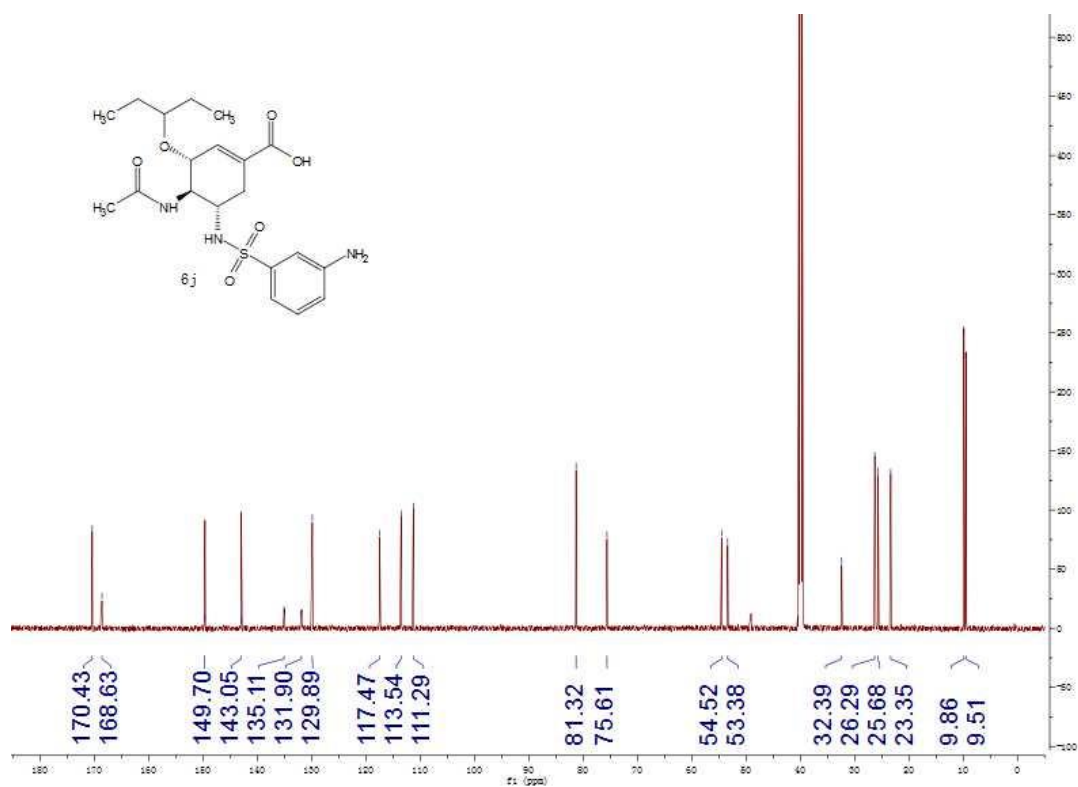


Figure S26. ¹³C-NMR of compound 6j.

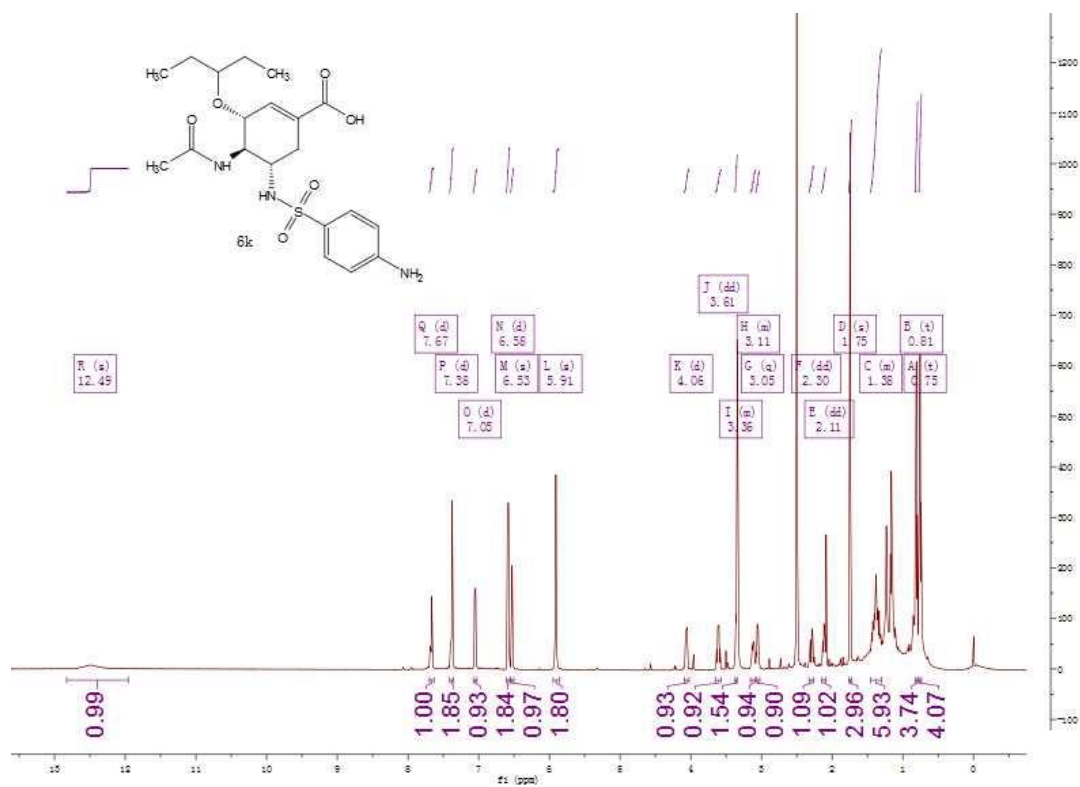


Figure S27. ¹H-NMR of compound 6k.

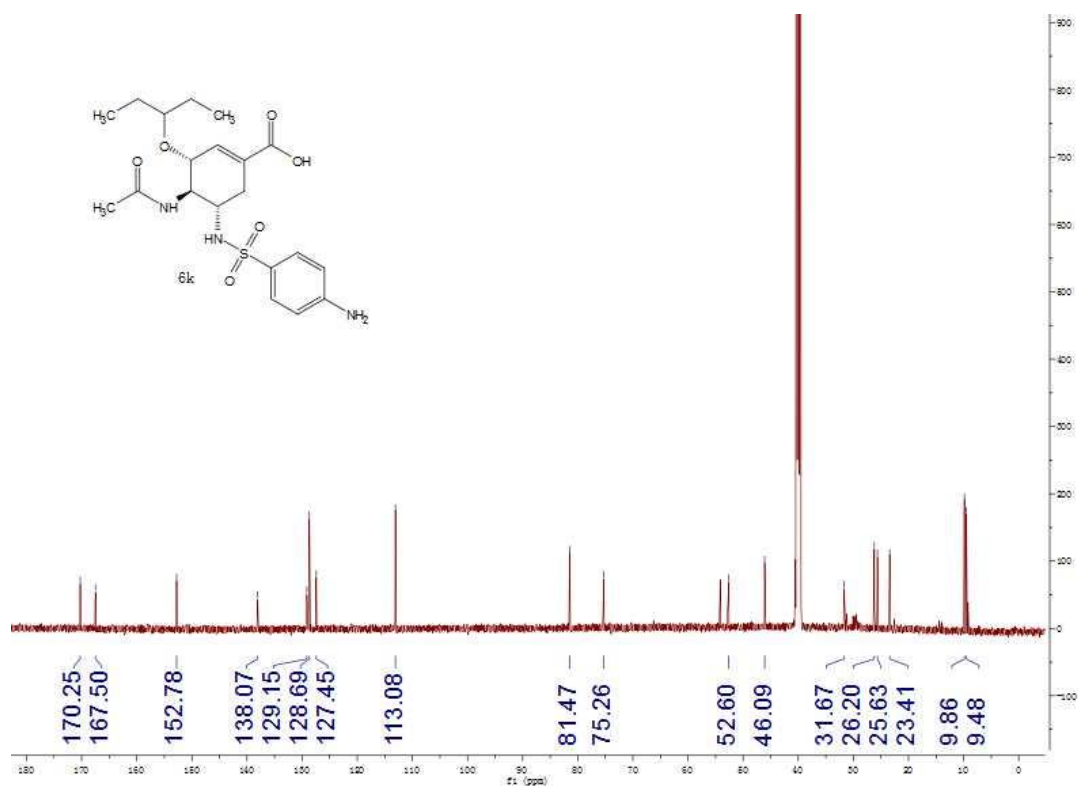


Figure S28. ¹³C-NMR of compound 6k.