

Supporting Information

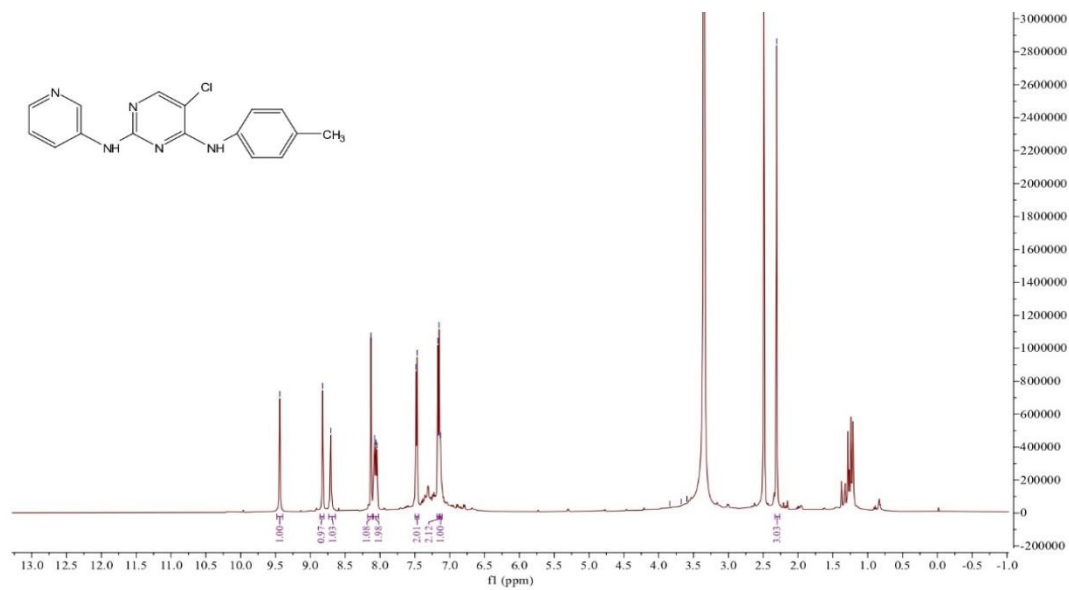
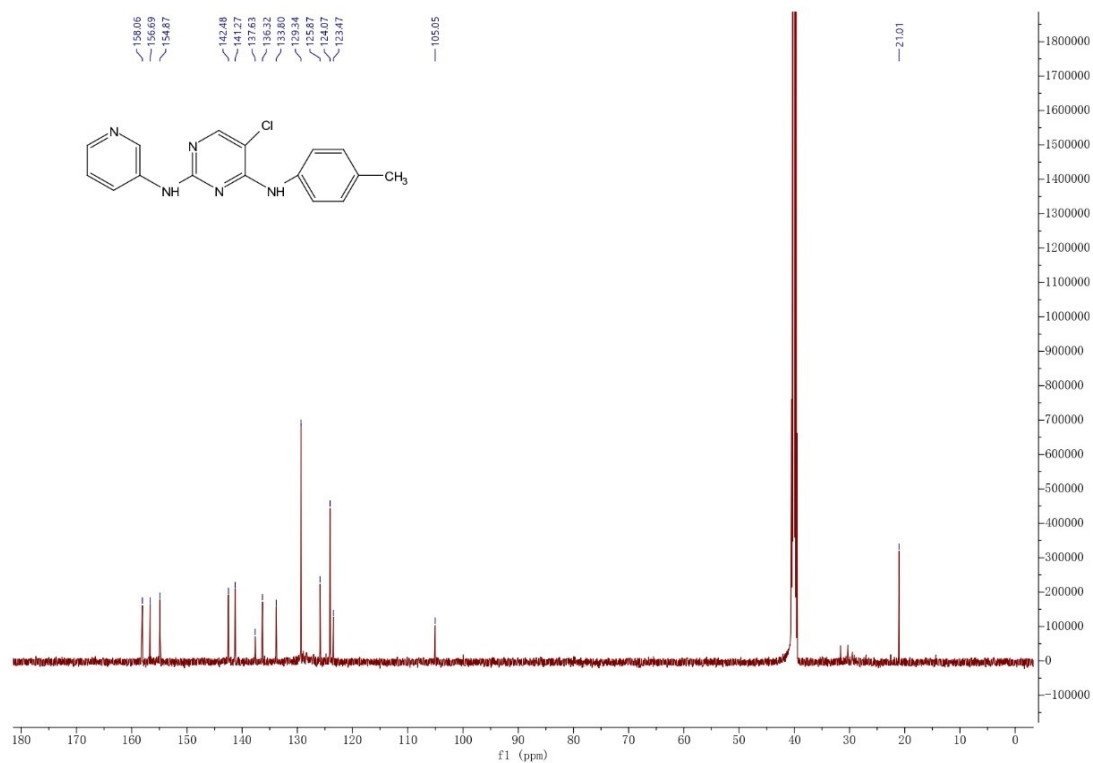
Discovery of a novel pyrimidine derivative for treatment of acute lung injury through reducing oxidative stress and inflammatory response

Yu Jie Jian^a, Qi Lv^a, Leran Du^a, Cen Cen Lei^a, Li ping Zhi^{b,*} and Xin Hua Liu^{a,*}

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1. The ^1H NMR, ^{13}C NMR and ESI-HRMS



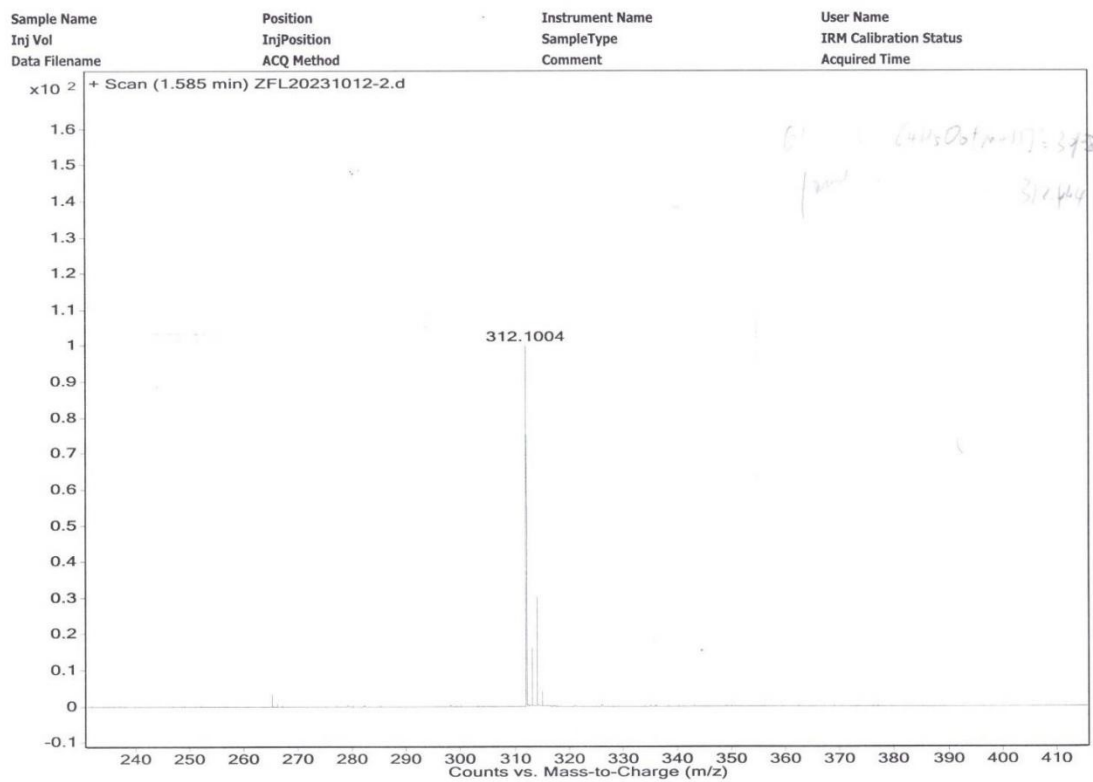
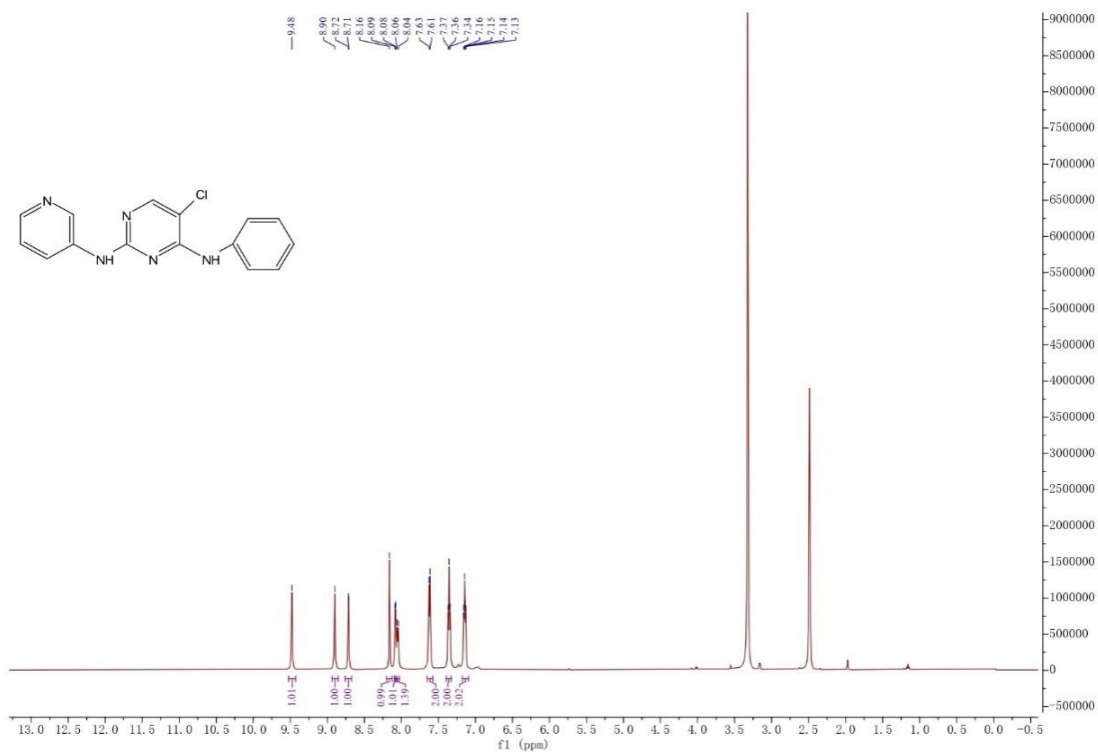
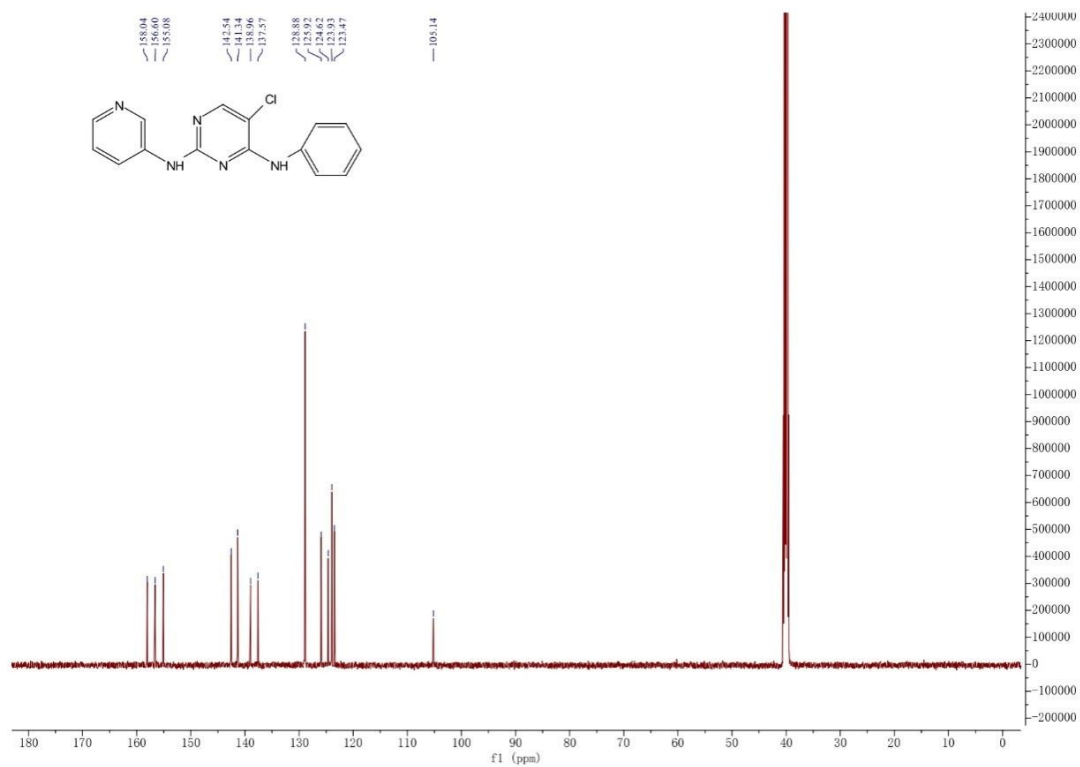


Figure S1. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound 6.





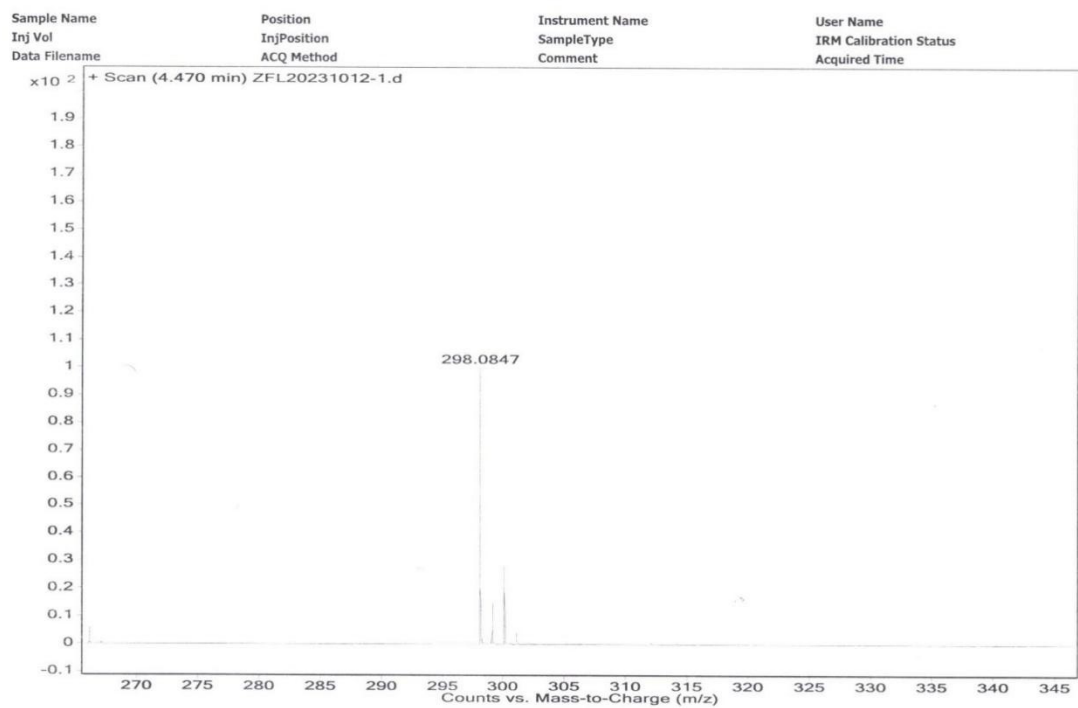
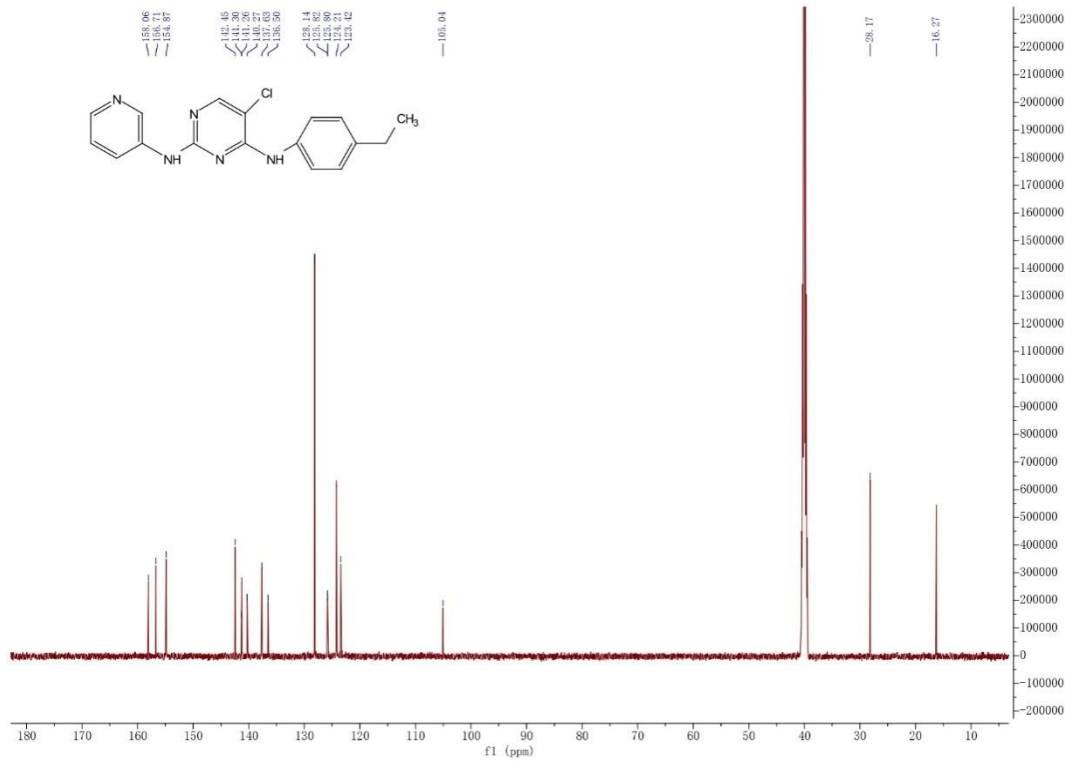
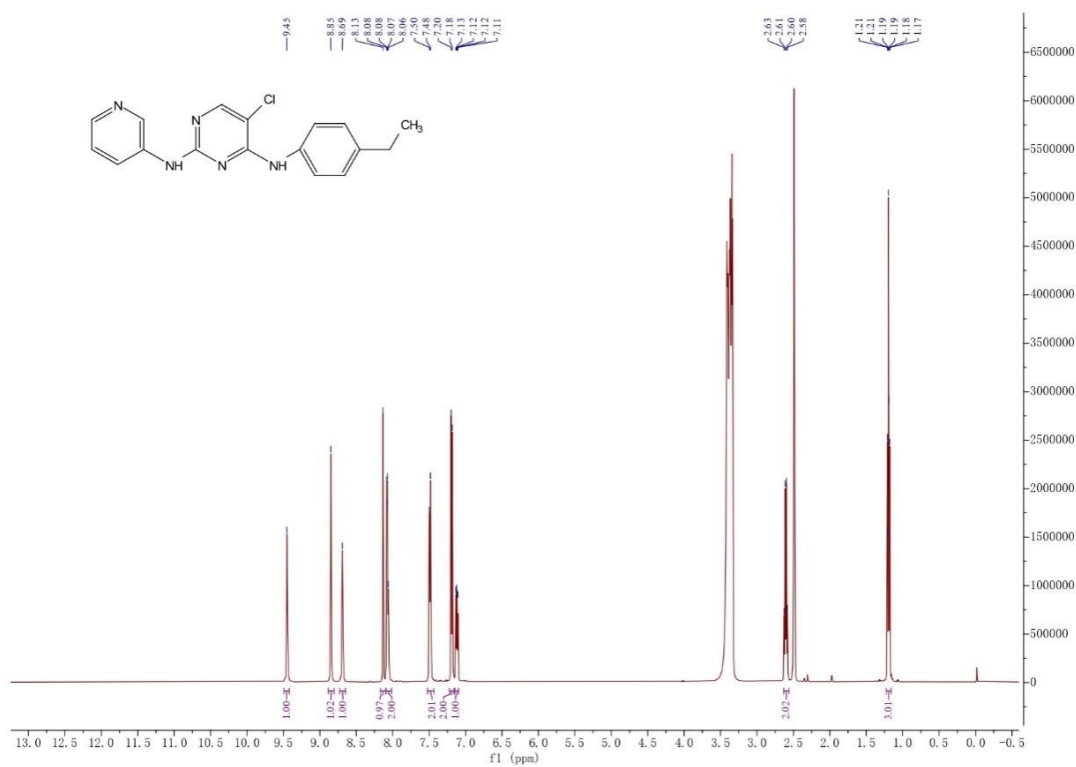


Figure S2. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **7**.



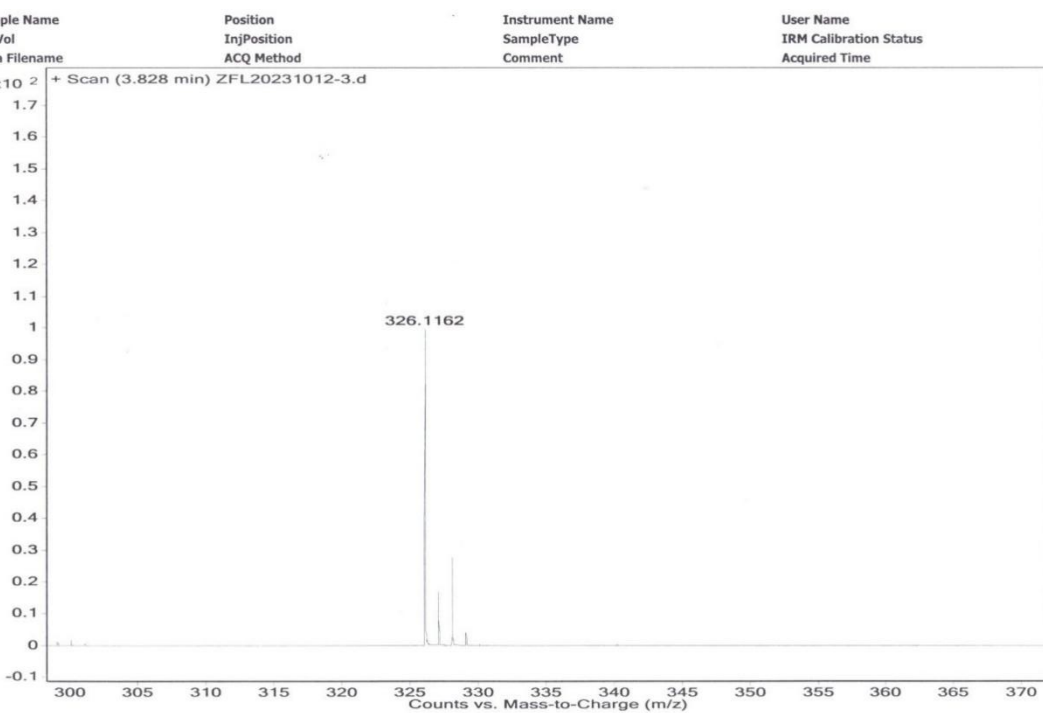
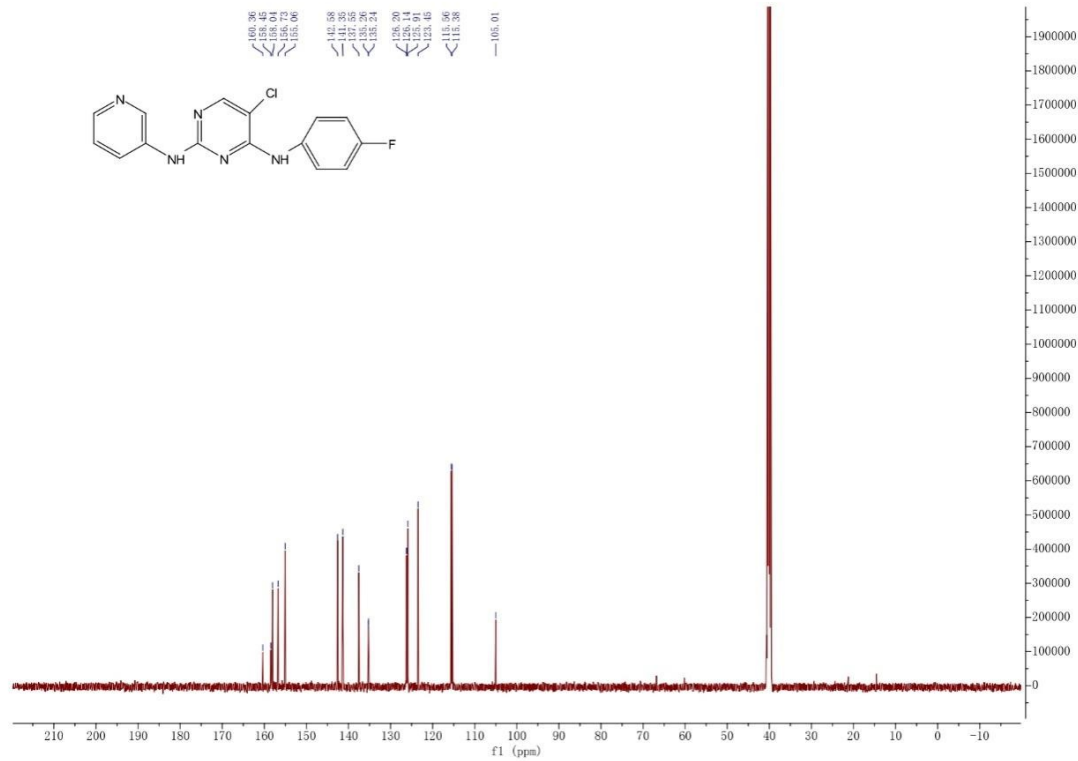
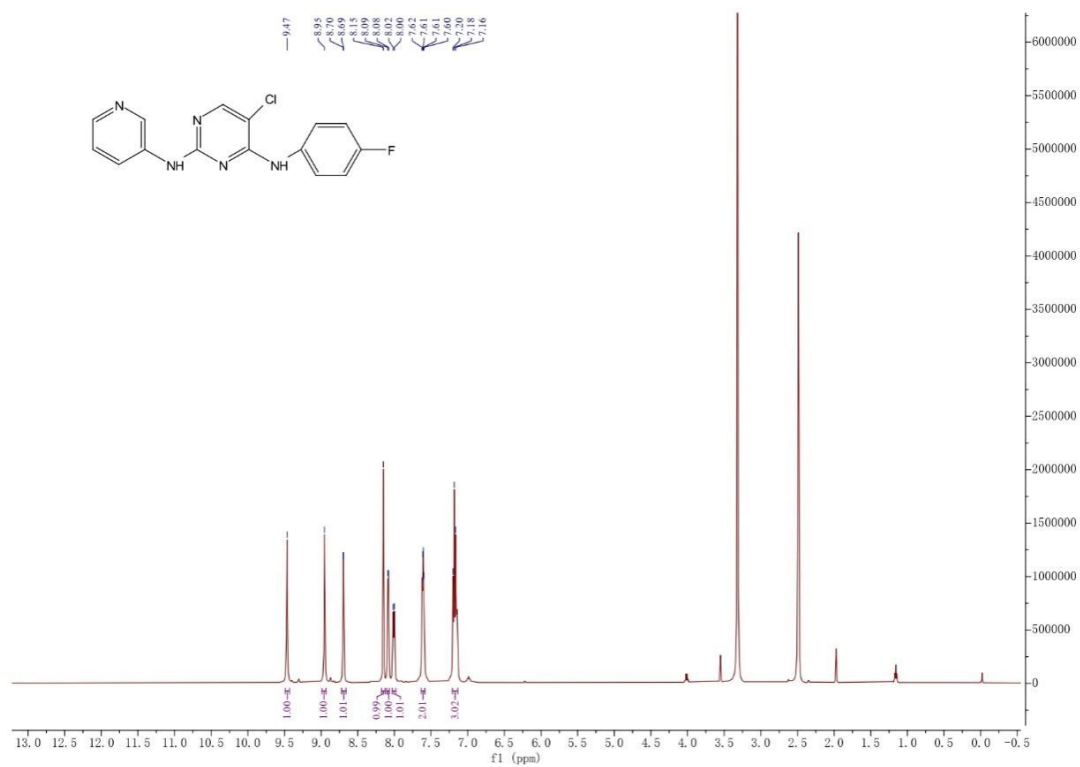


Figure S3. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **8**.



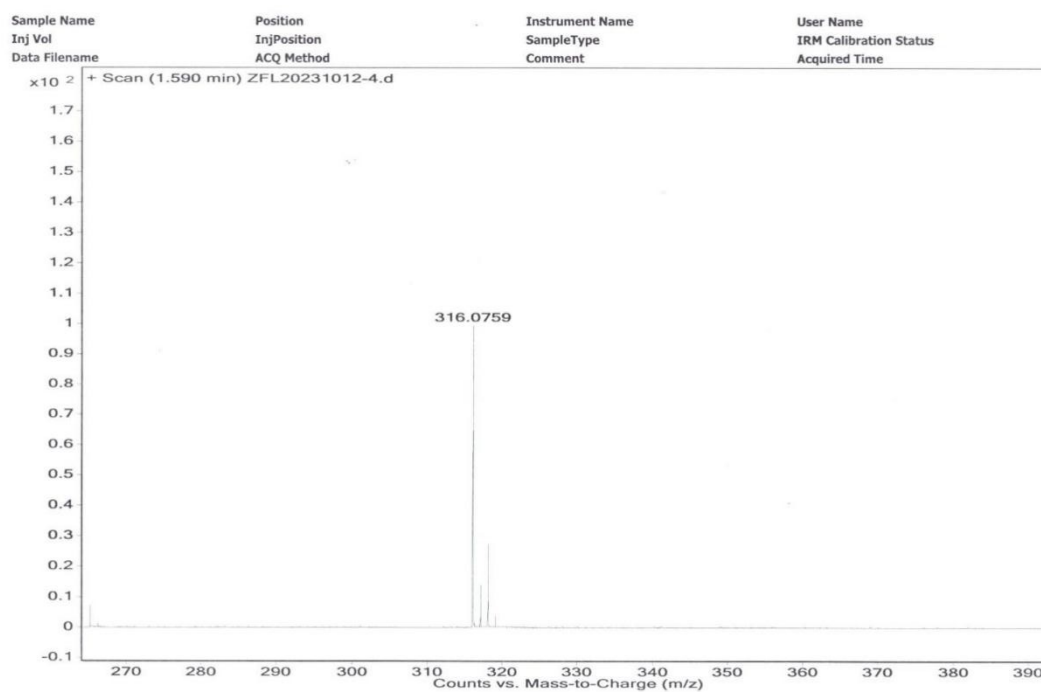
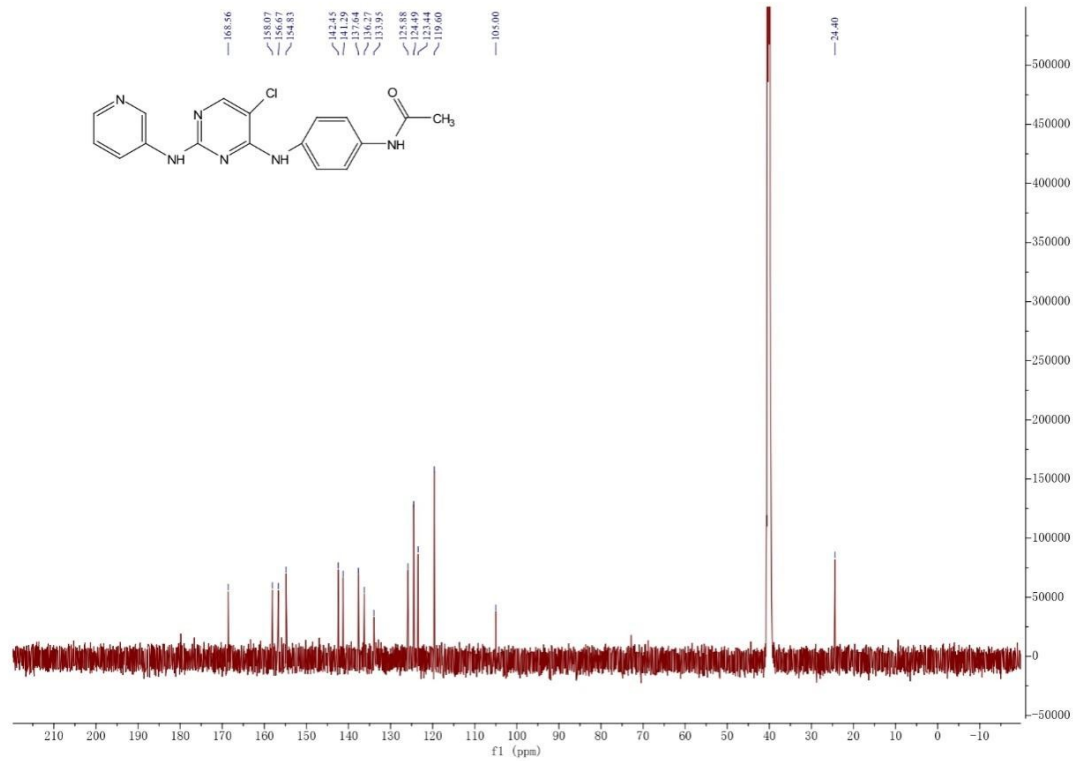
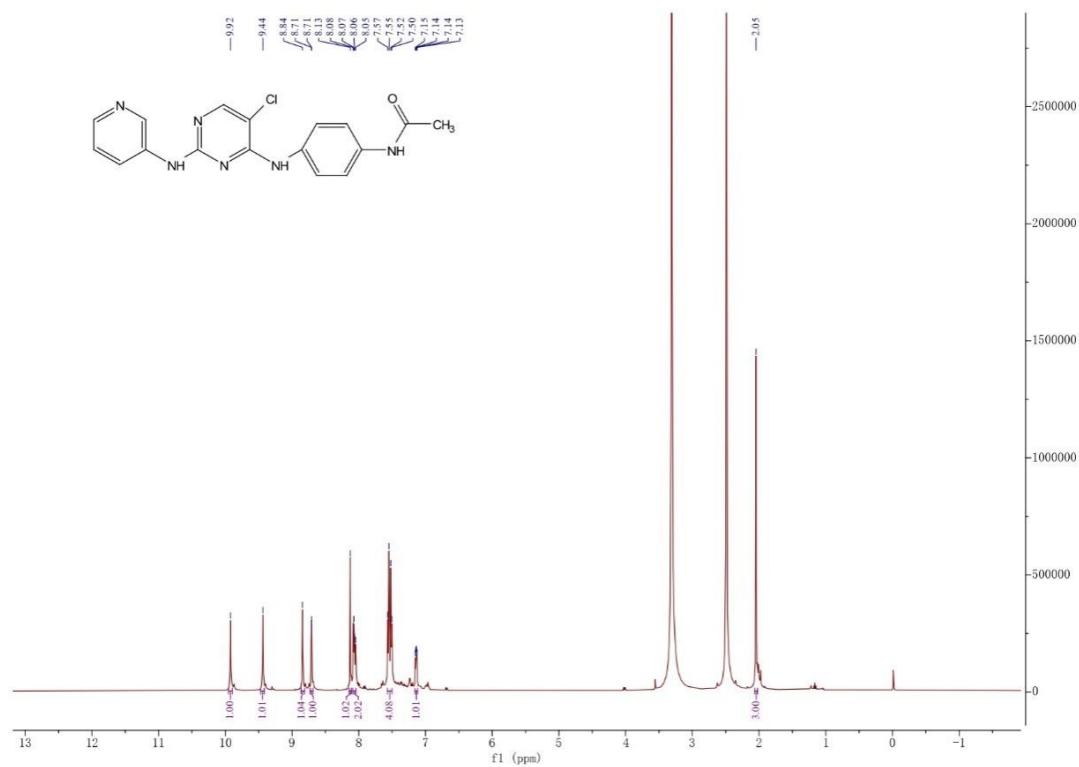


Figure S4. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **9**.



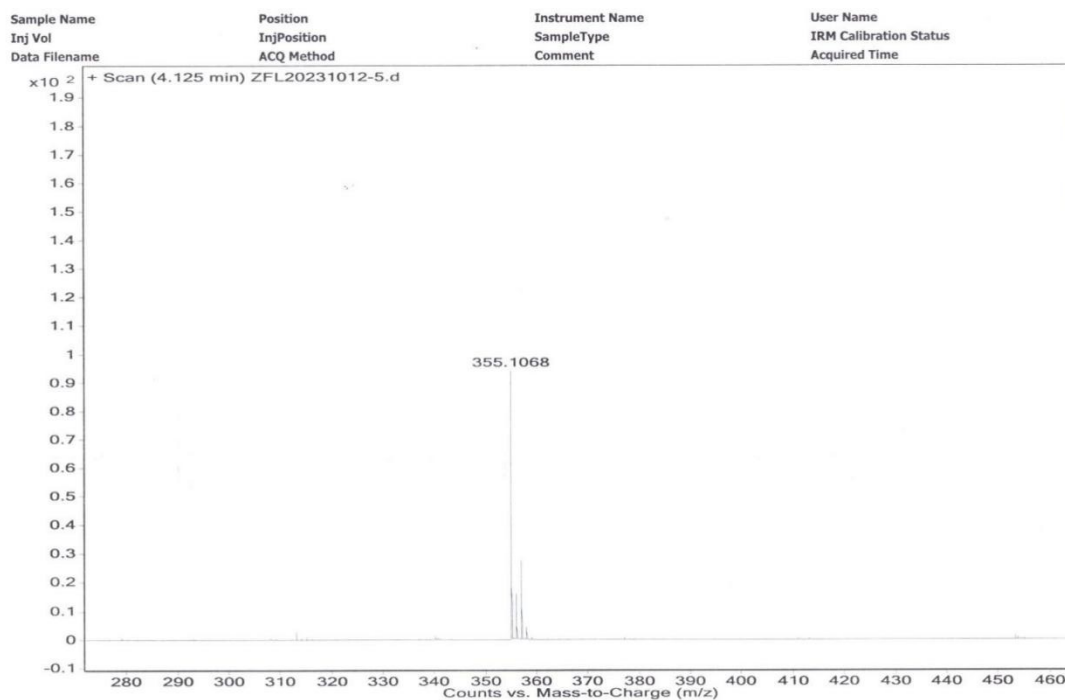
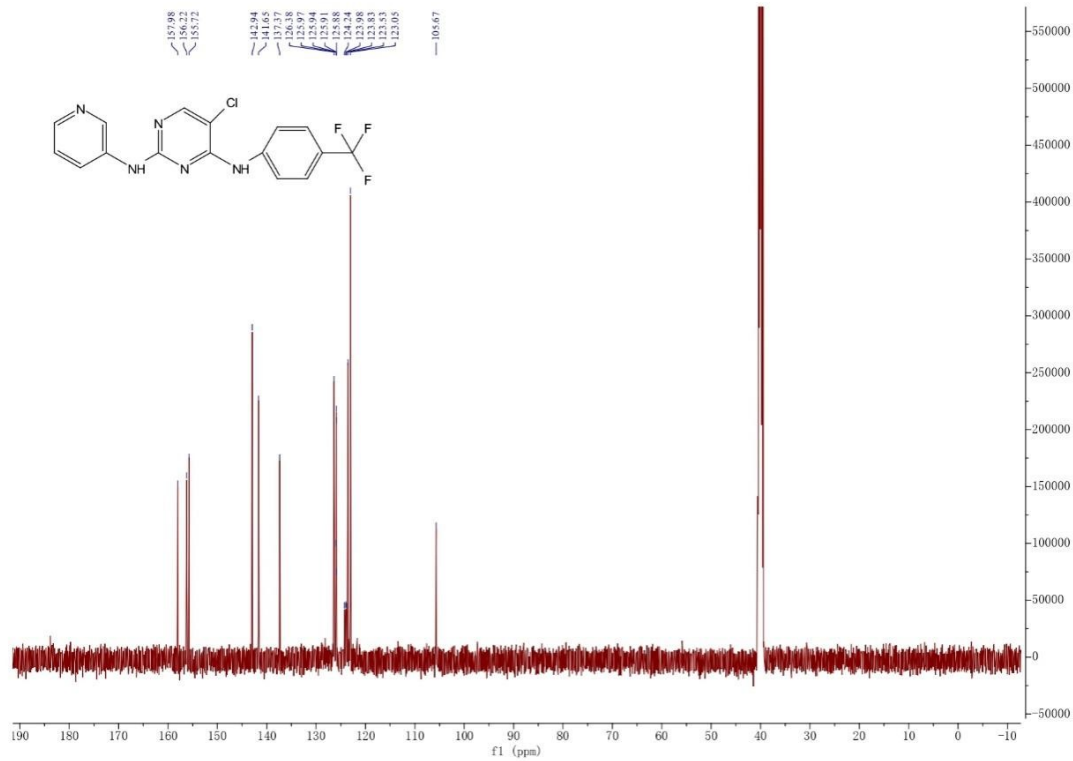
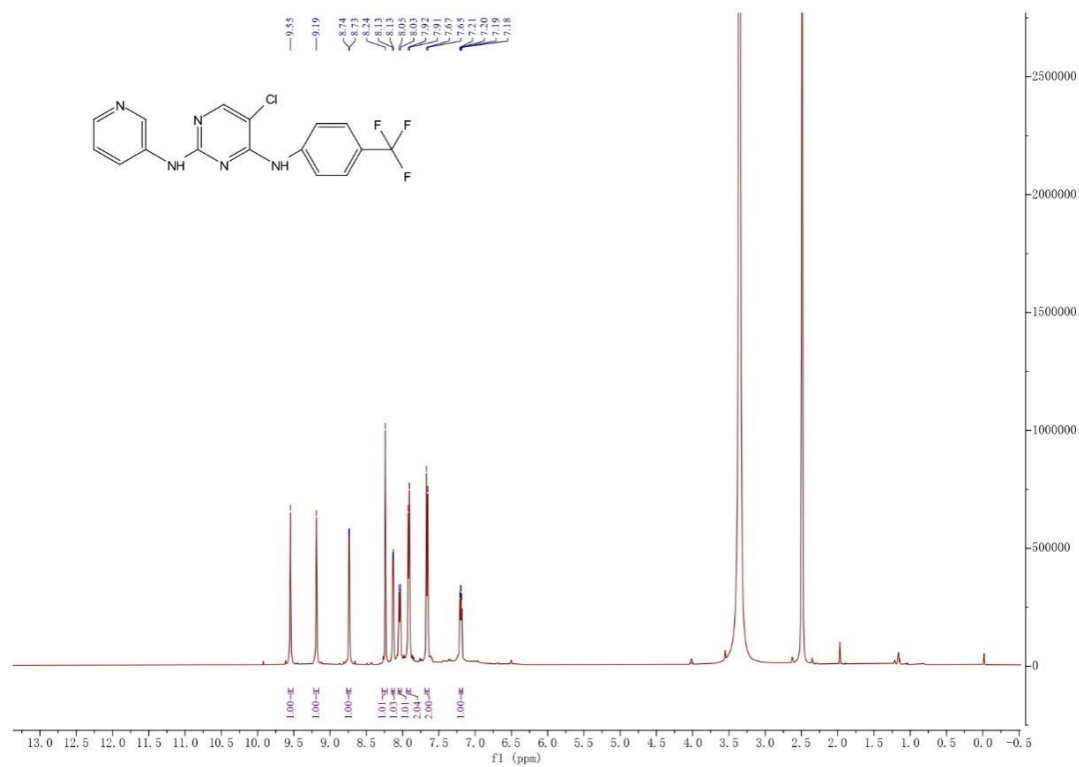


Figure S5. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **10**.



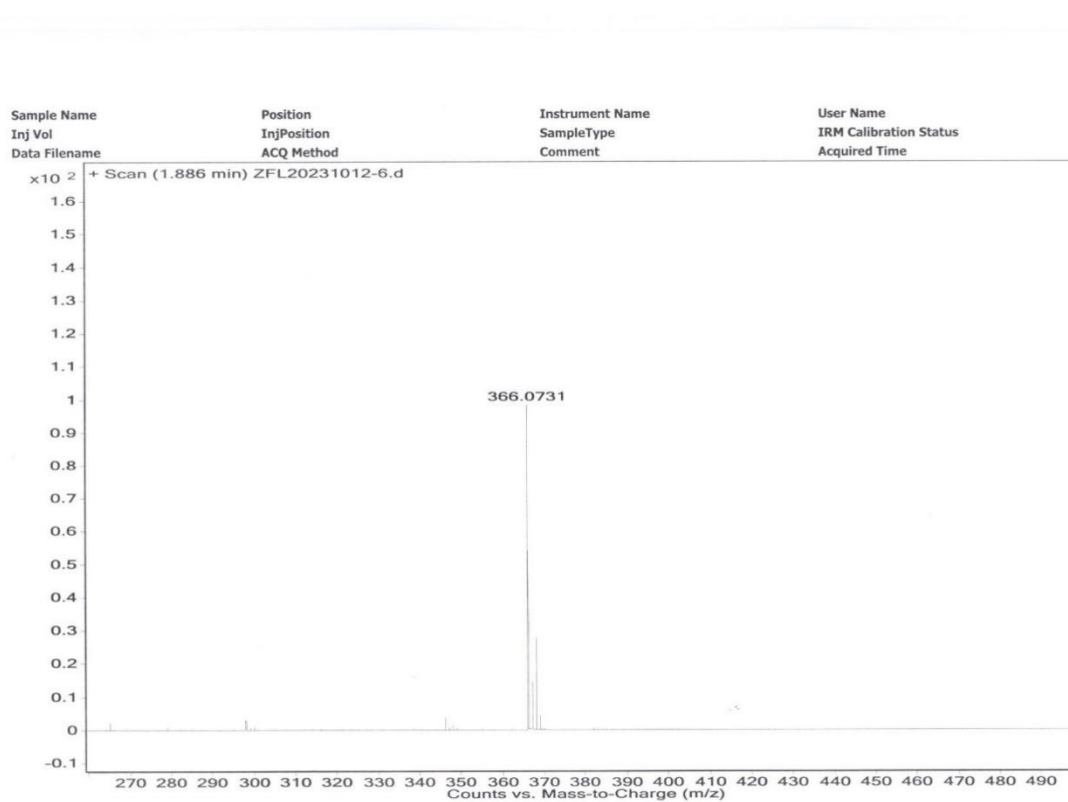
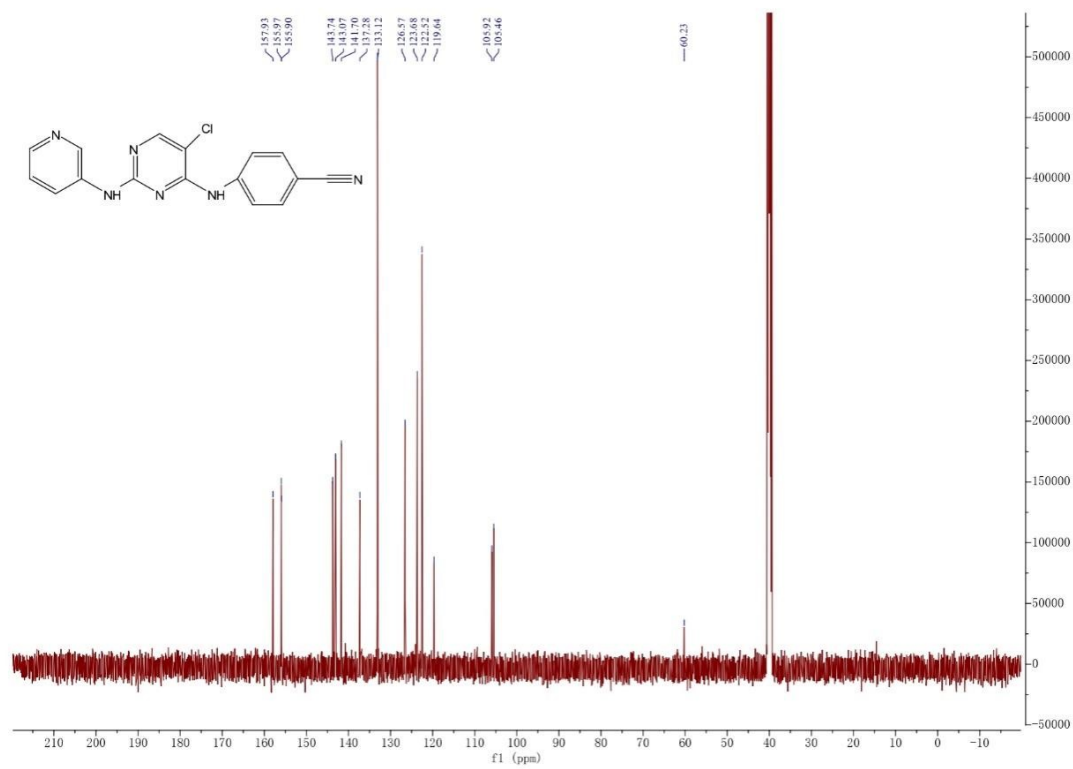
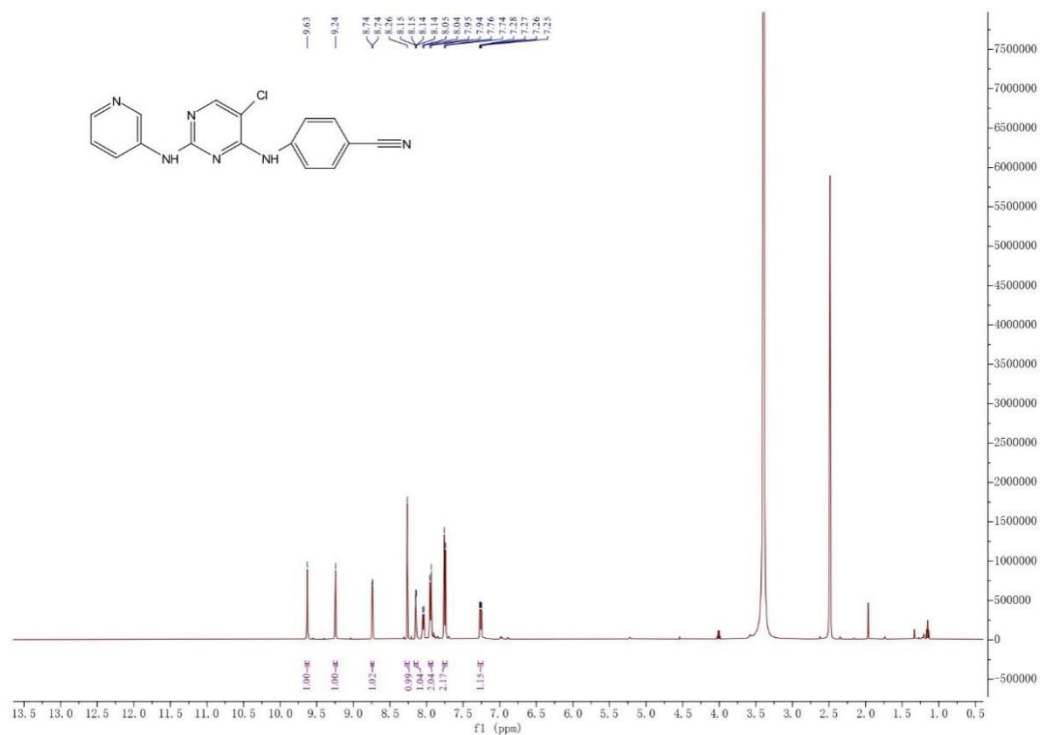


Figure S6. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **11**.



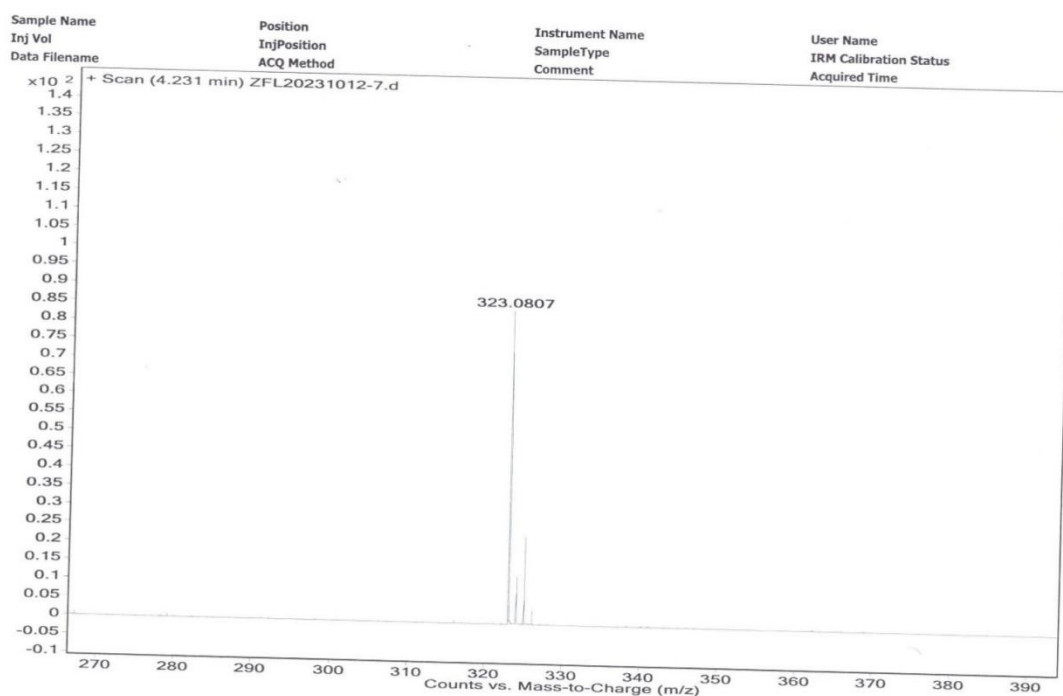
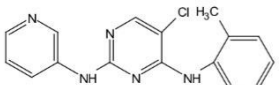
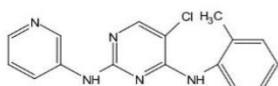


Figure S7. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **12**.



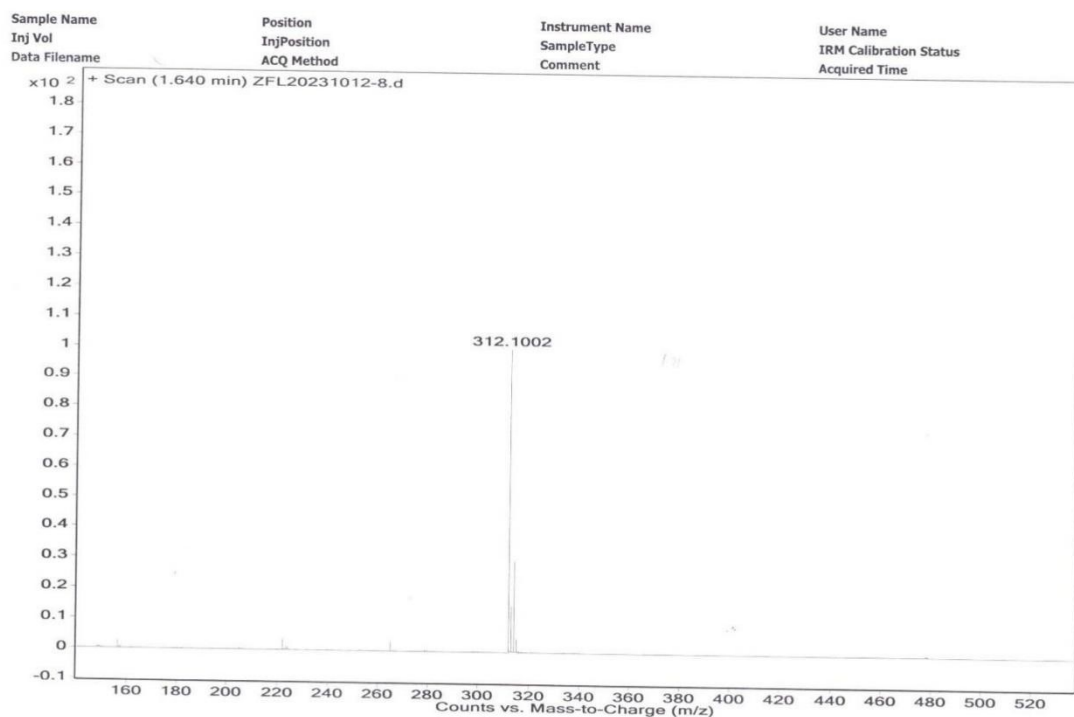
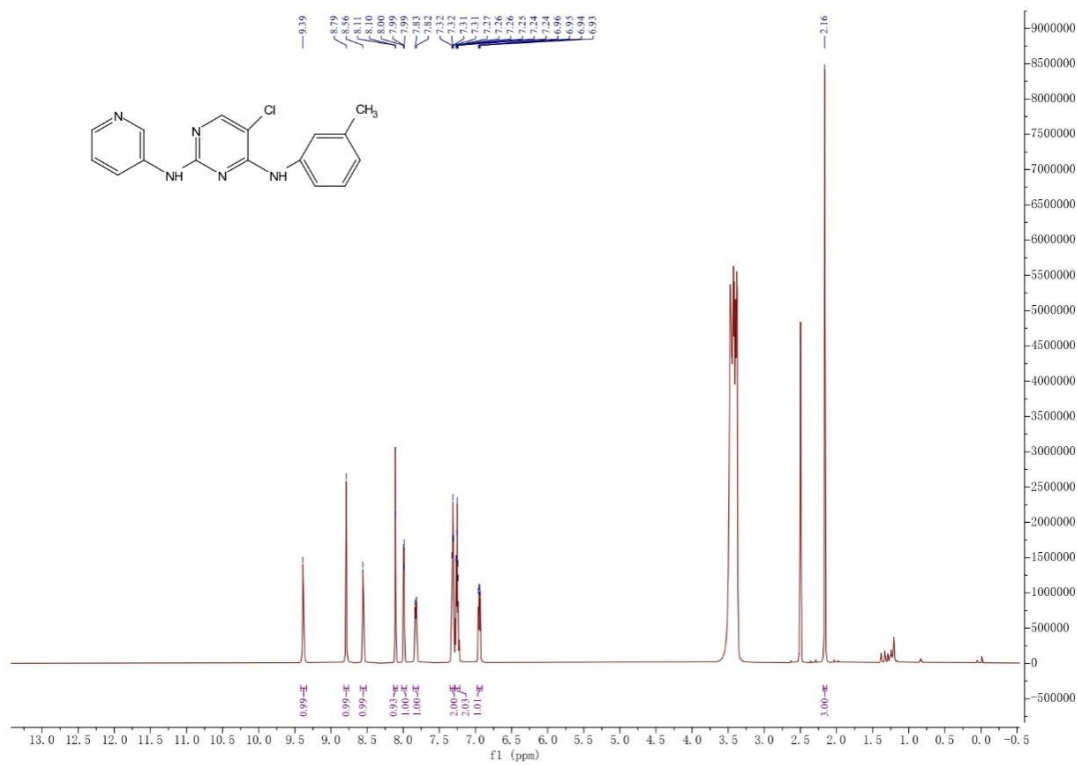
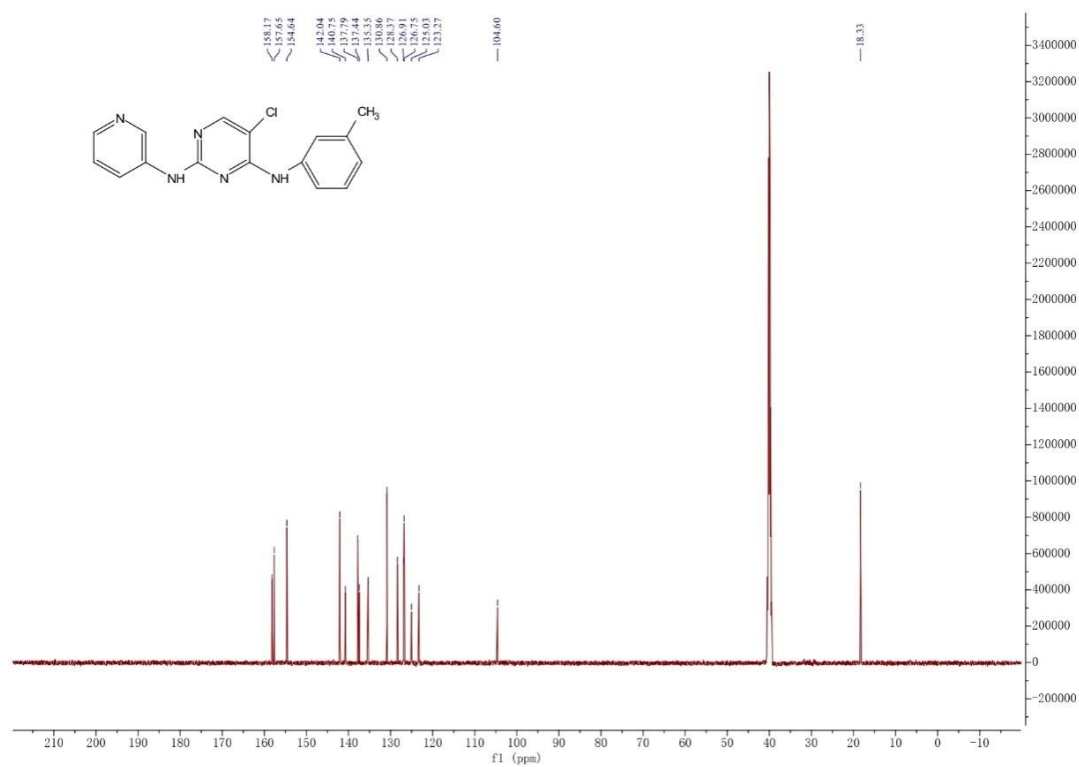


Figure S8. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **13**.





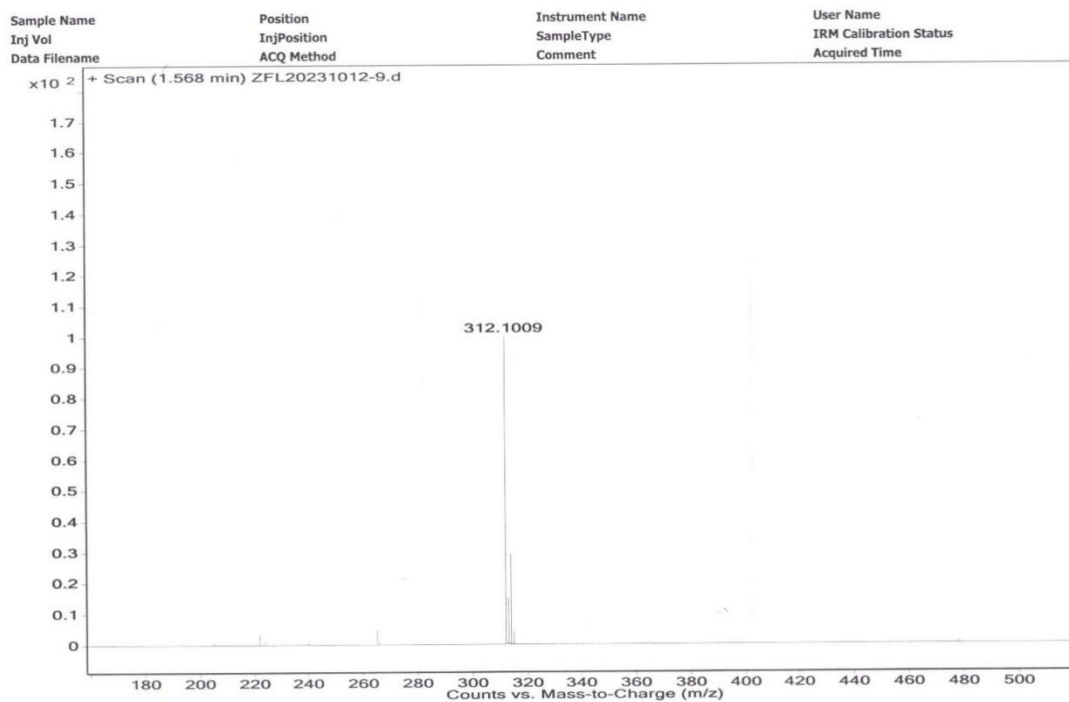
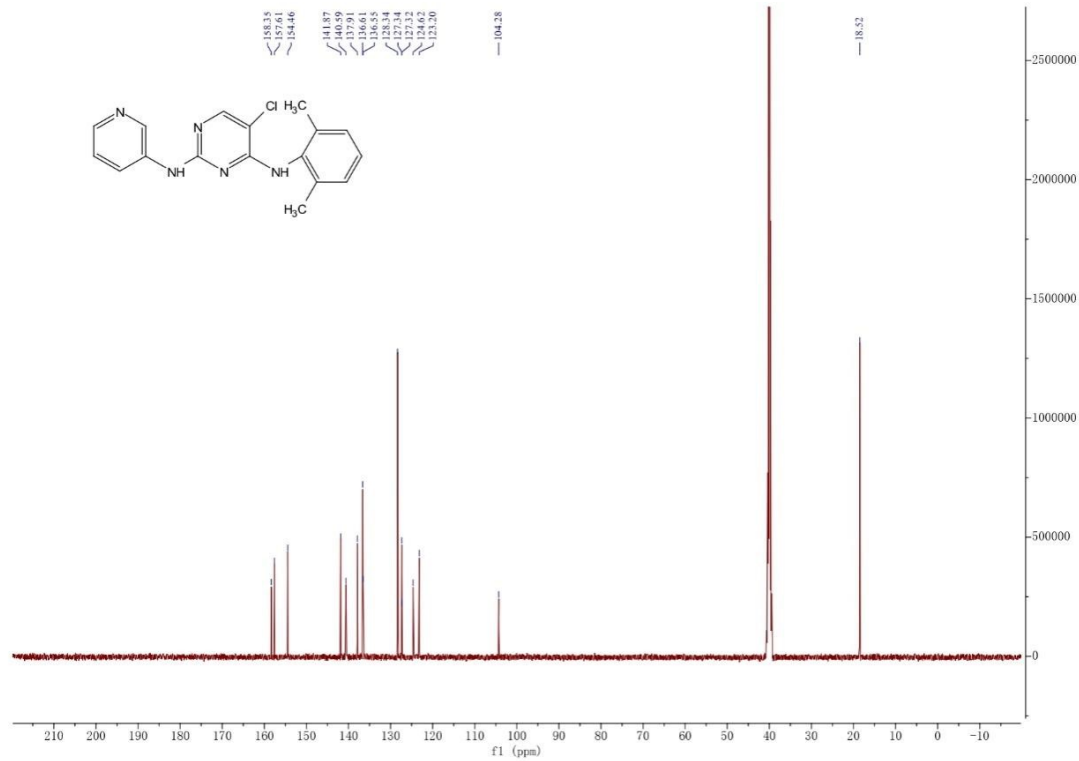
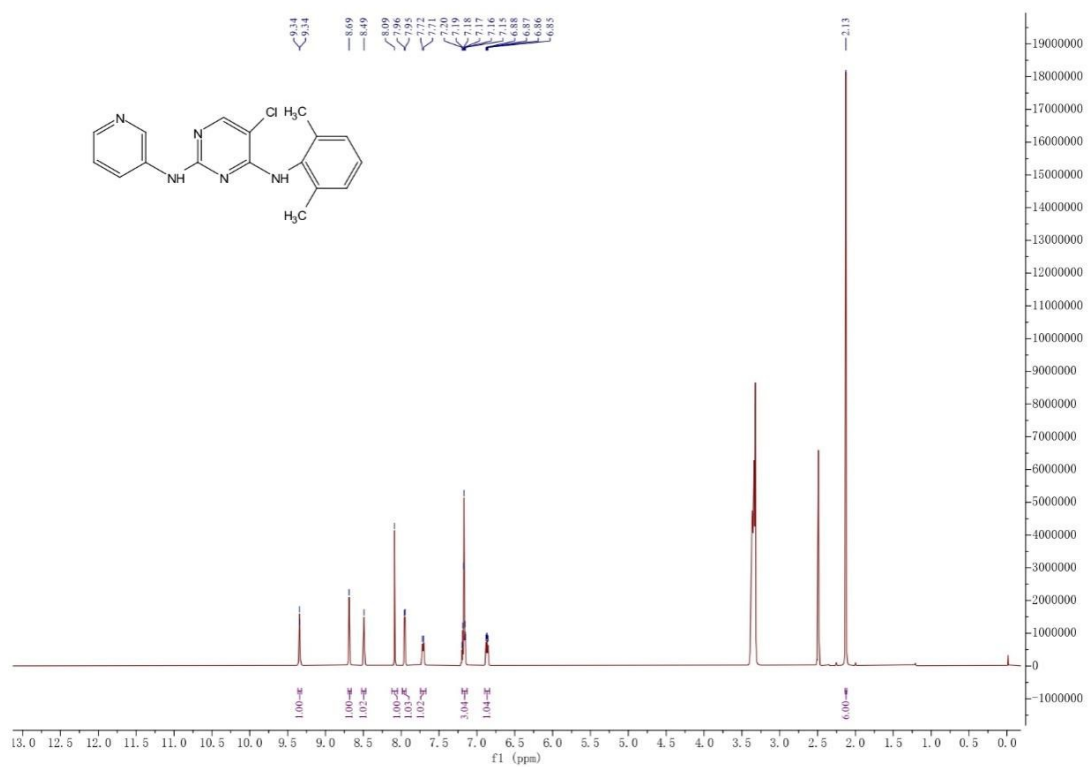


Figure S9. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **14**.



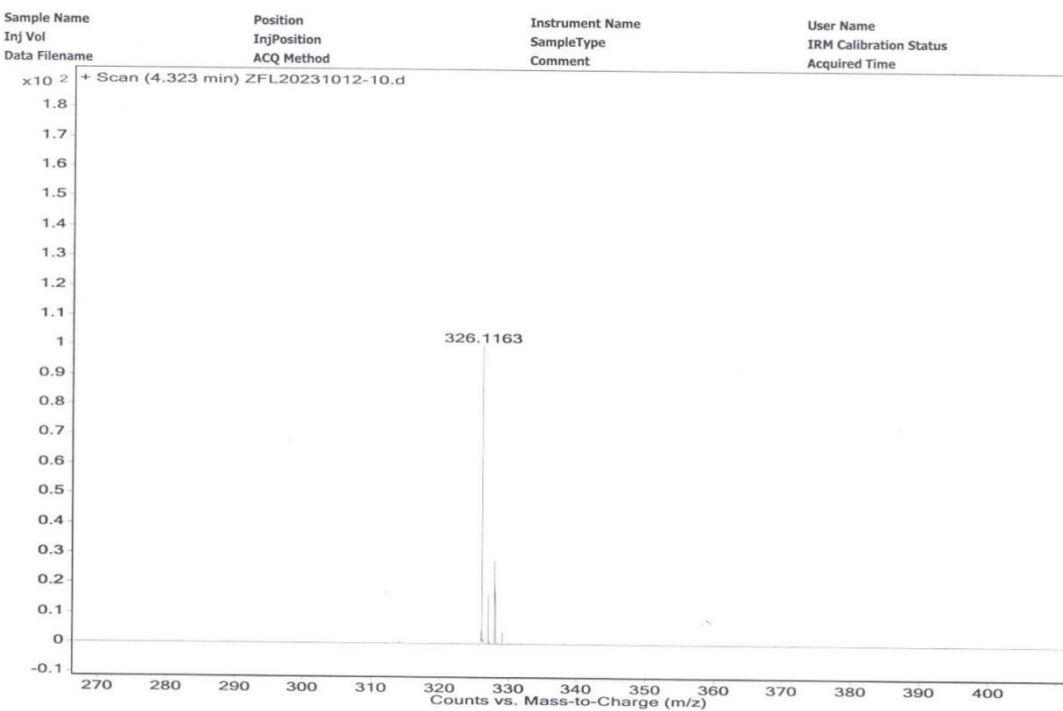
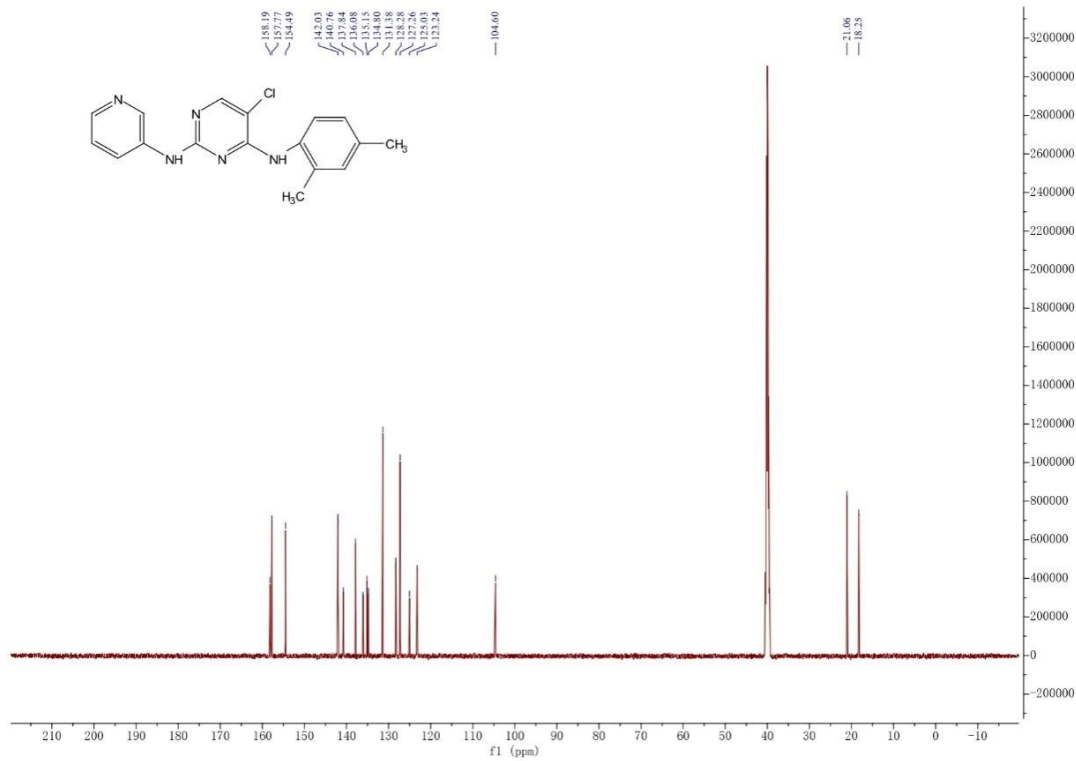
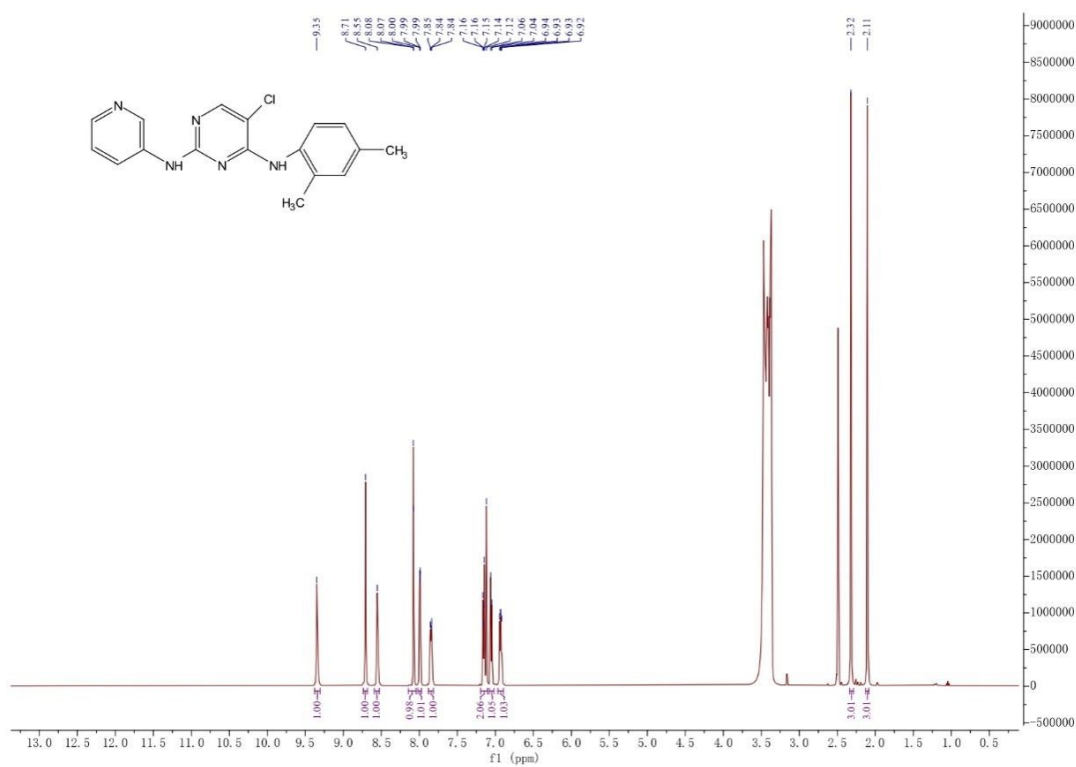


Figure S10. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **15**.



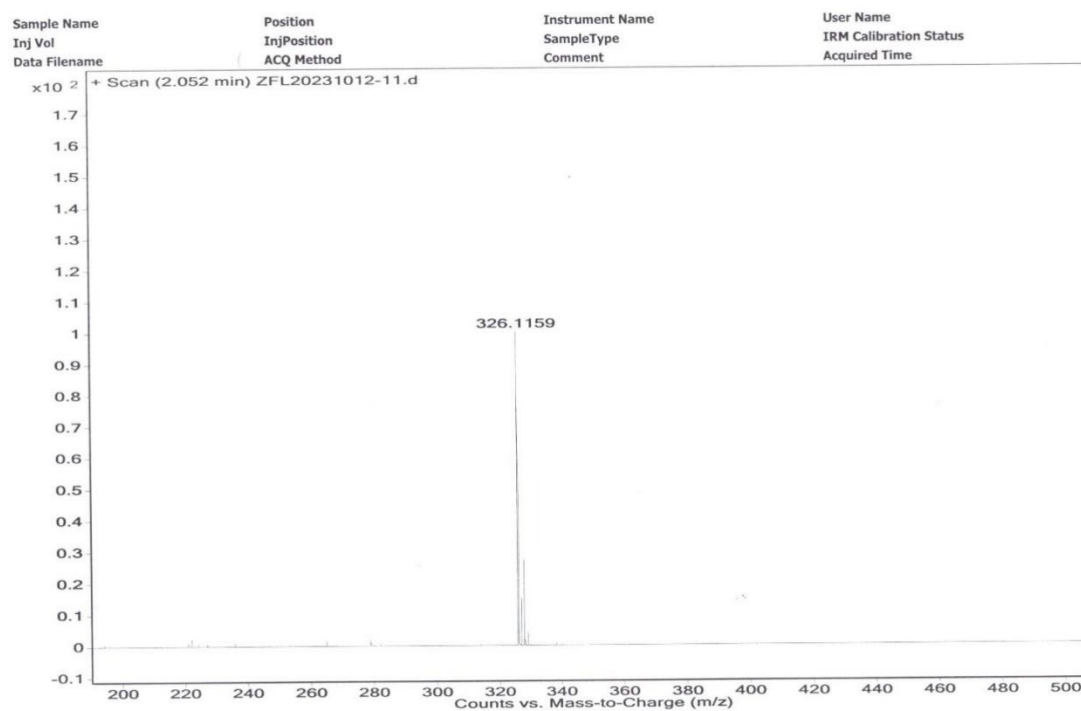
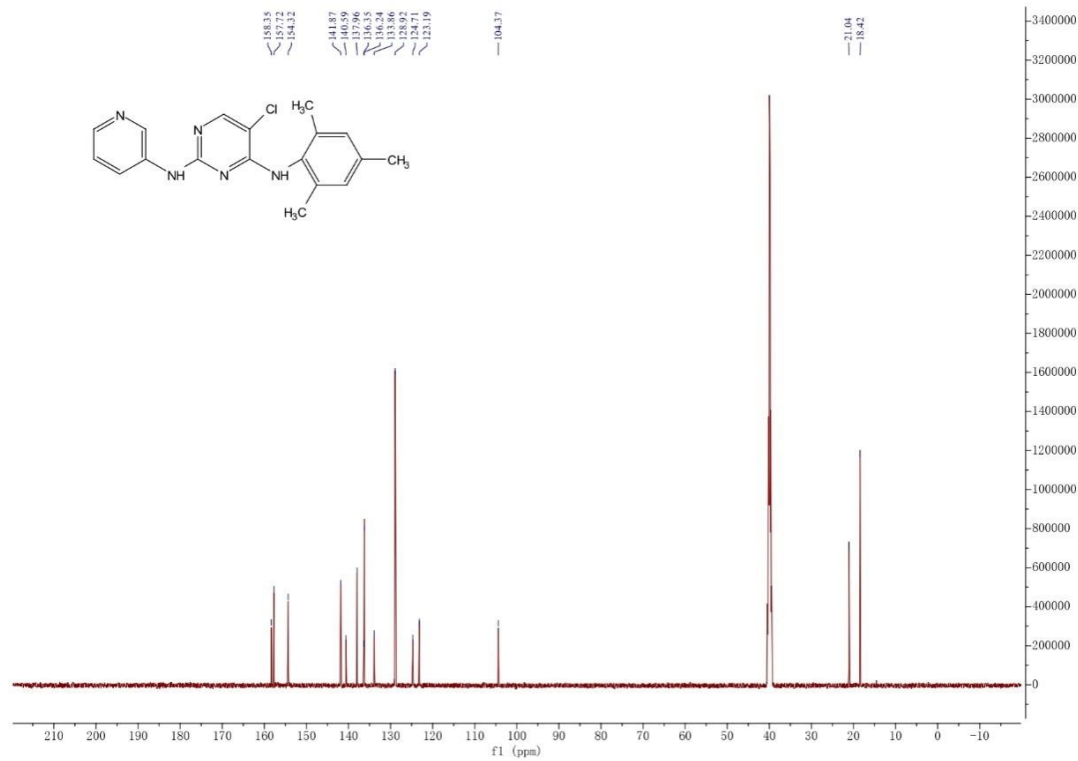
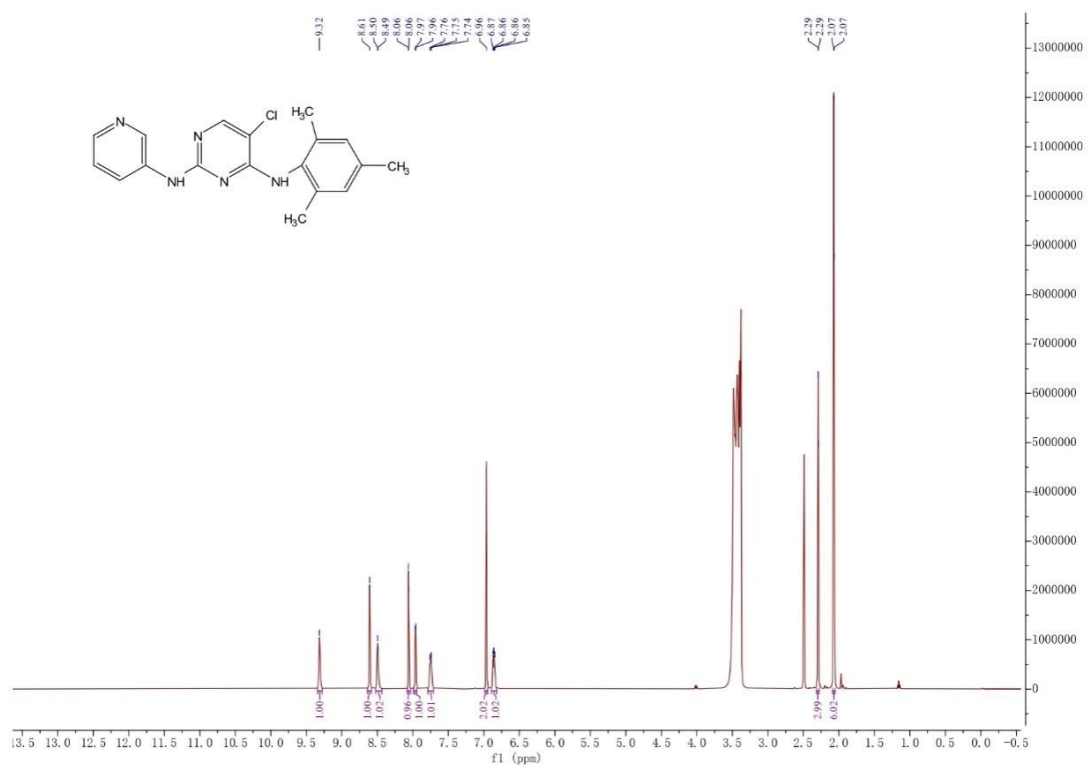


Figure S11. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **16**.



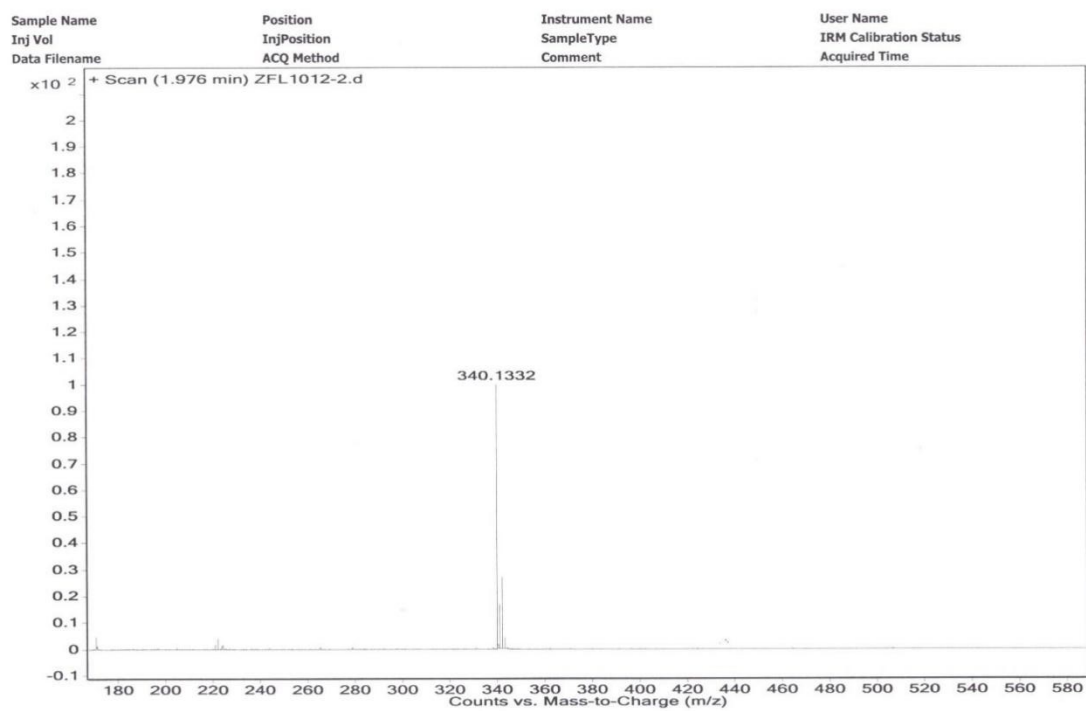
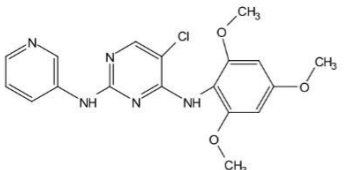
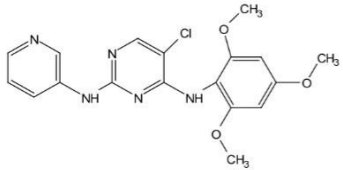


Figure S12. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **17**.



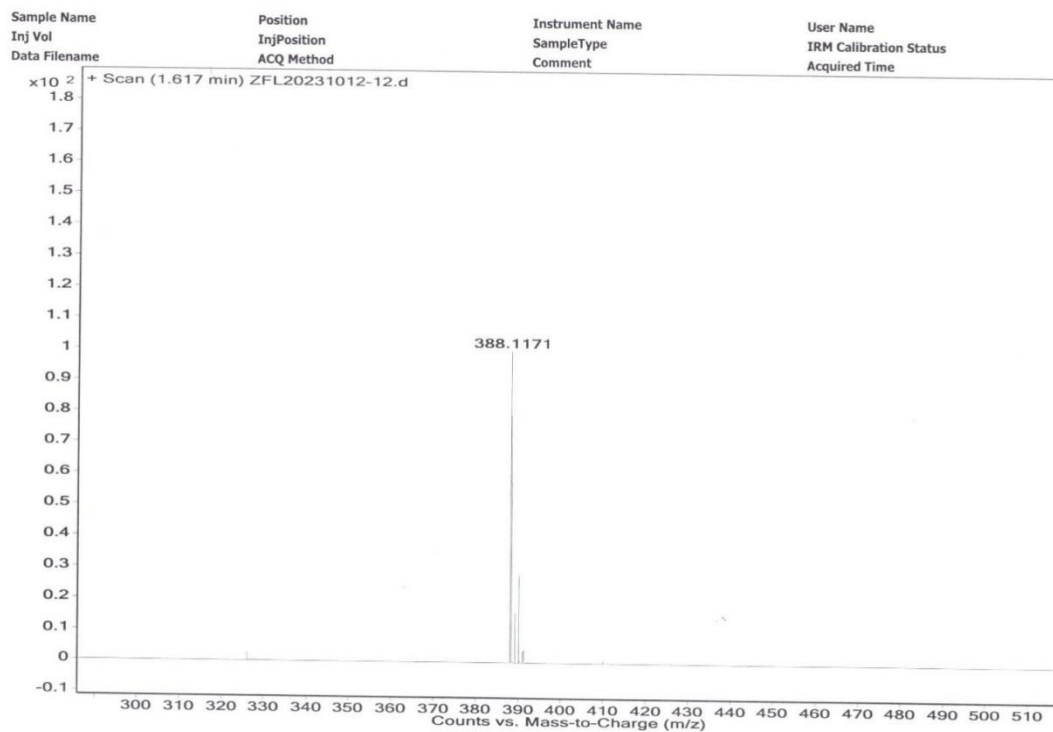
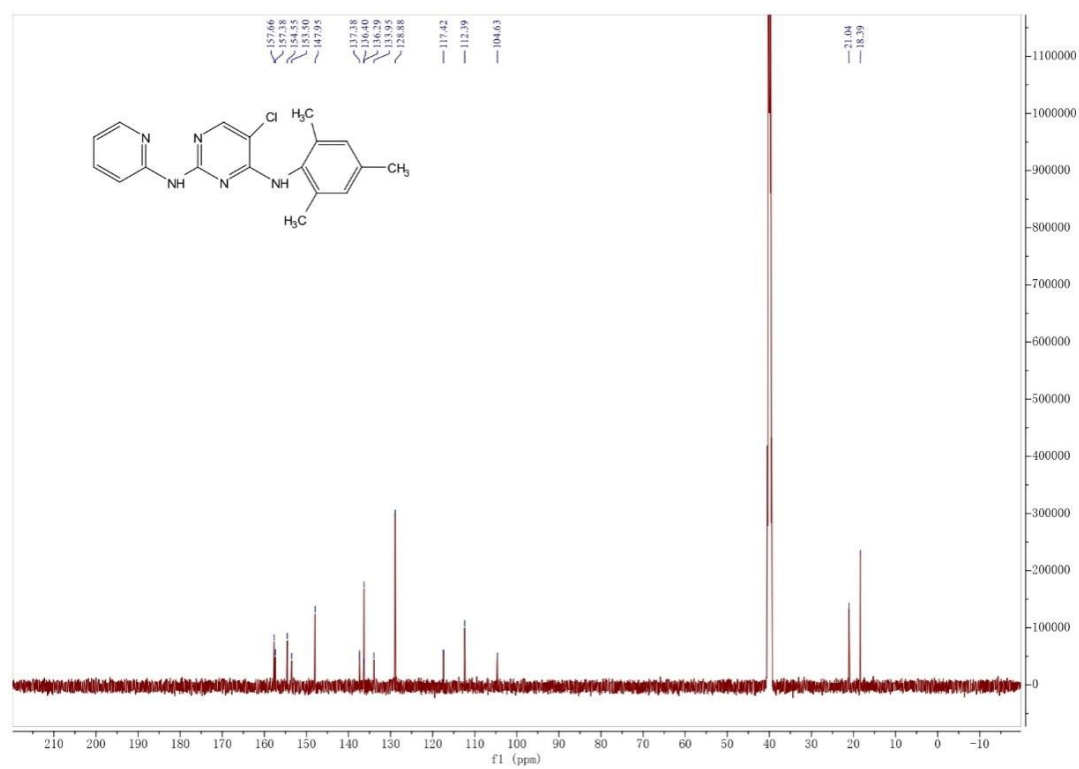
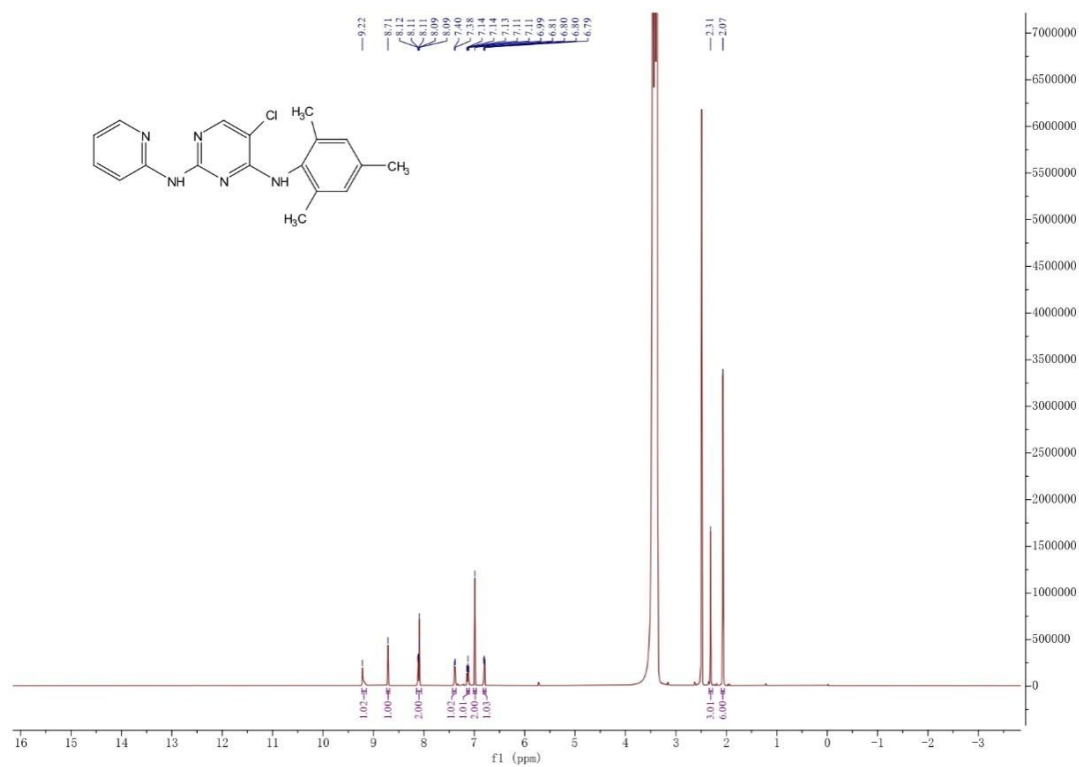


Figure S13. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **18**.



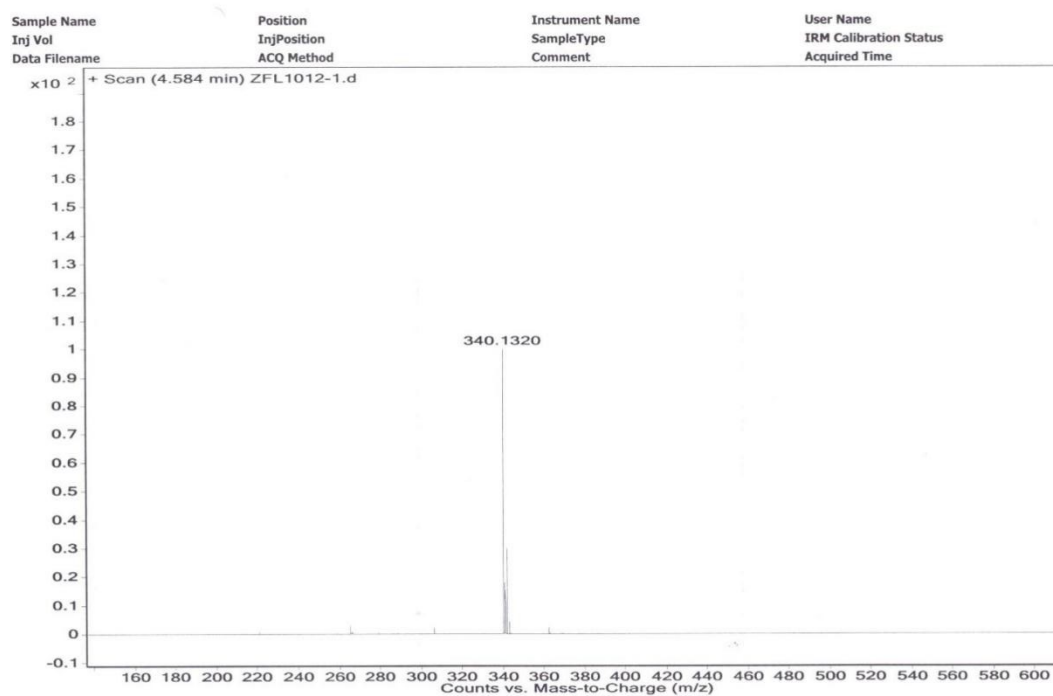
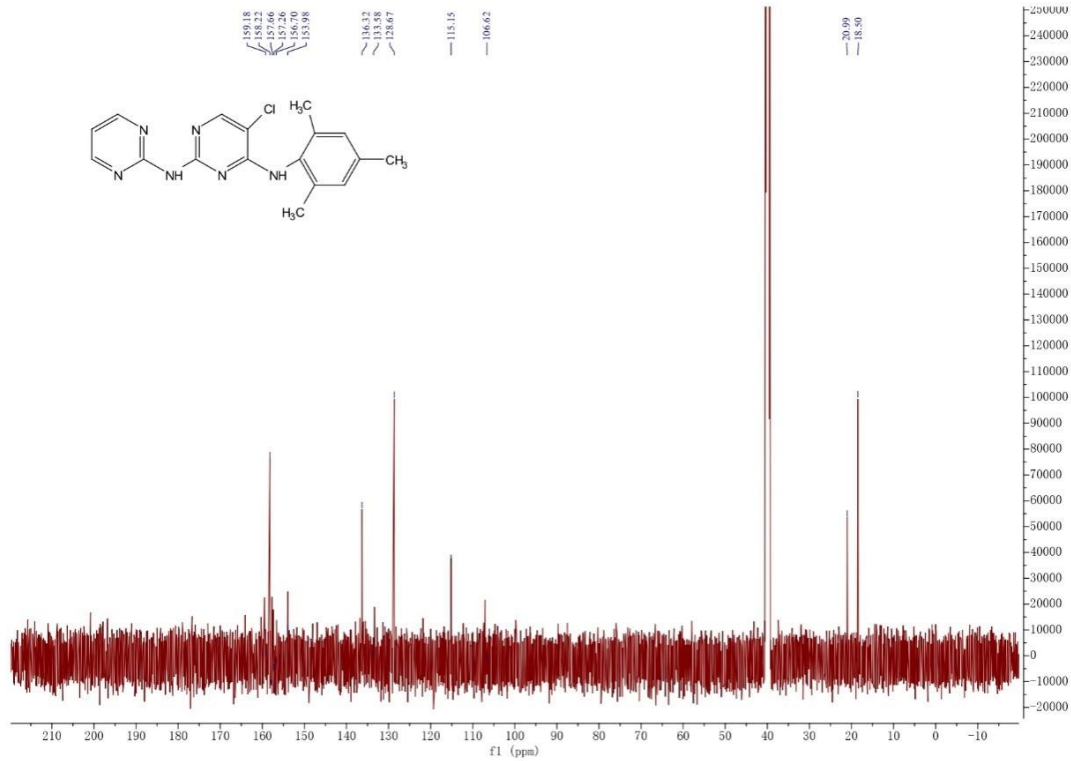
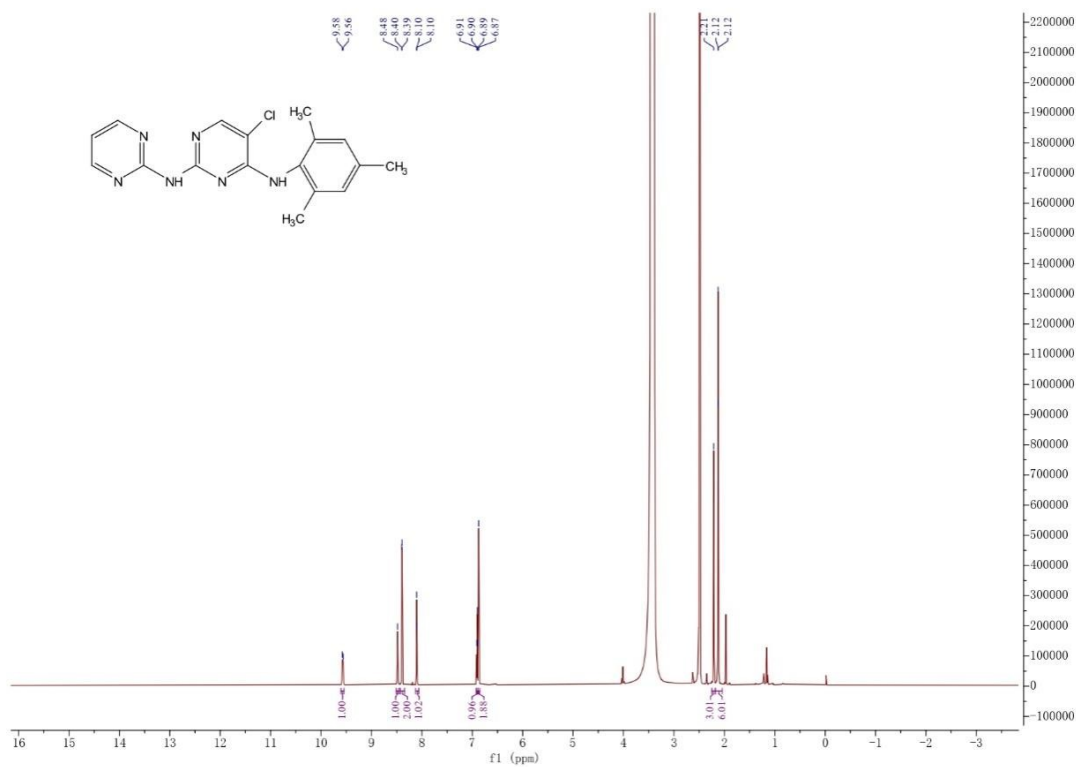


Figure S14. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **19**.



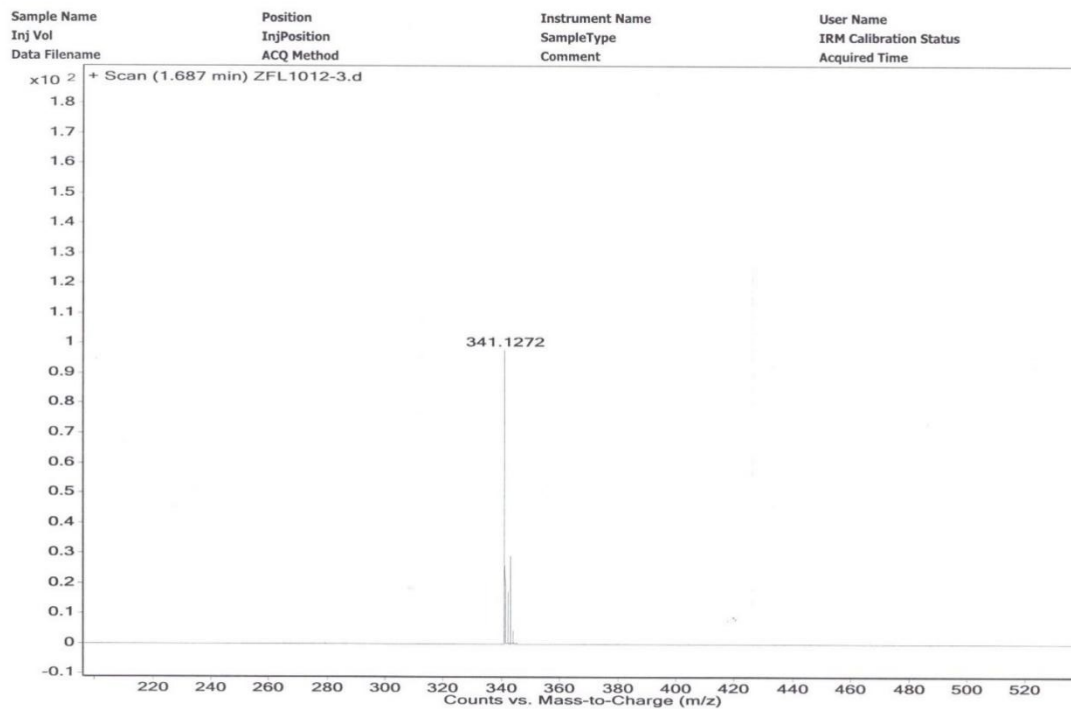
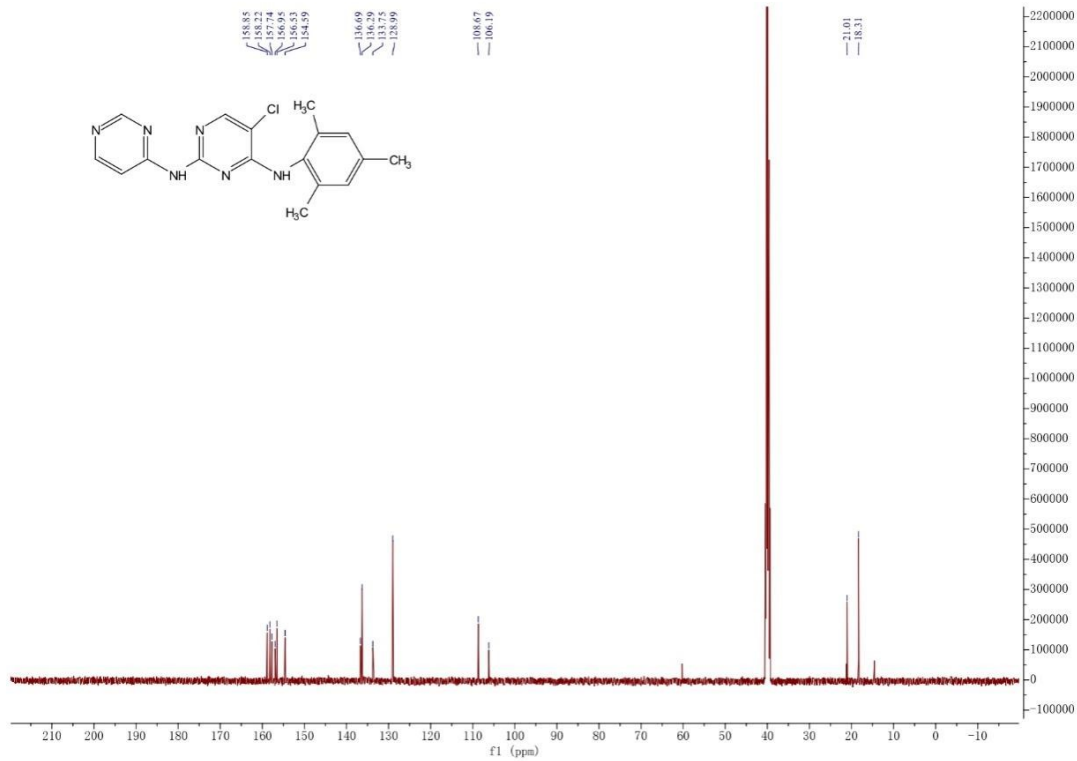
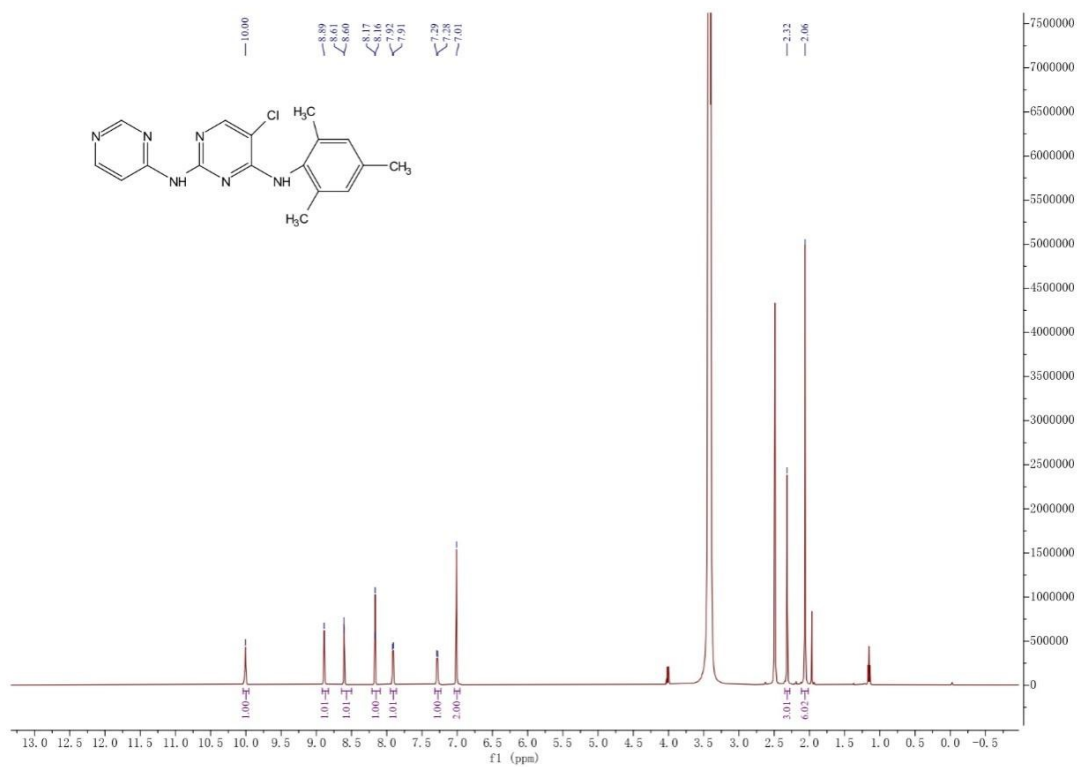


Figure S15. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **20**.



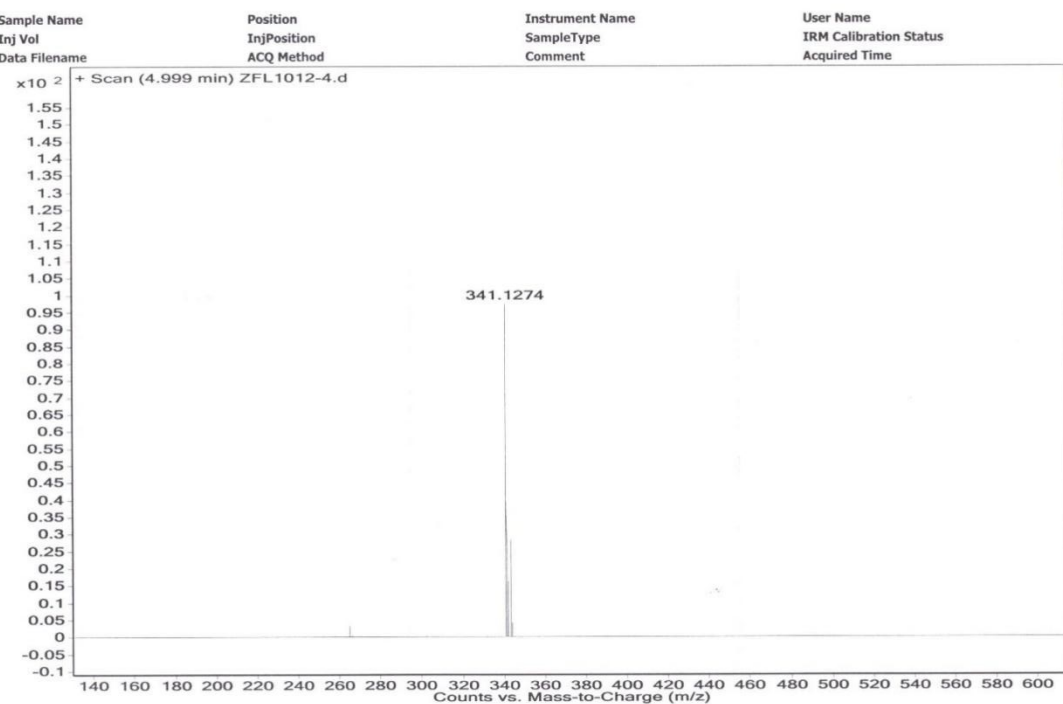
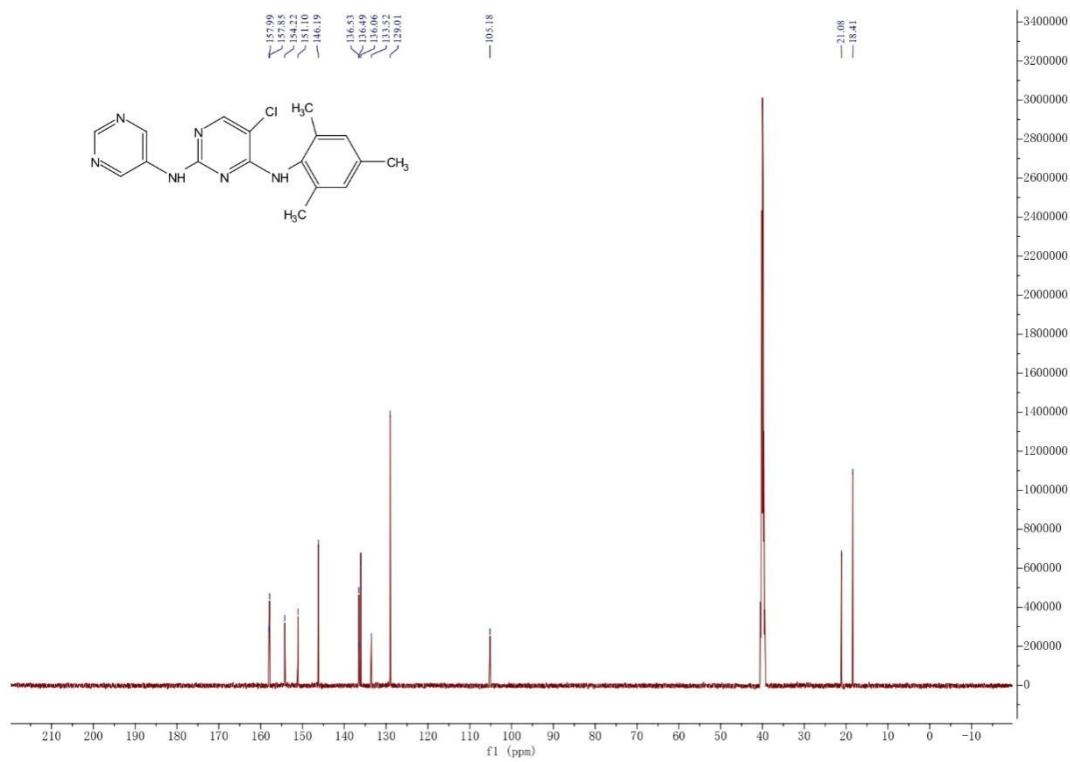
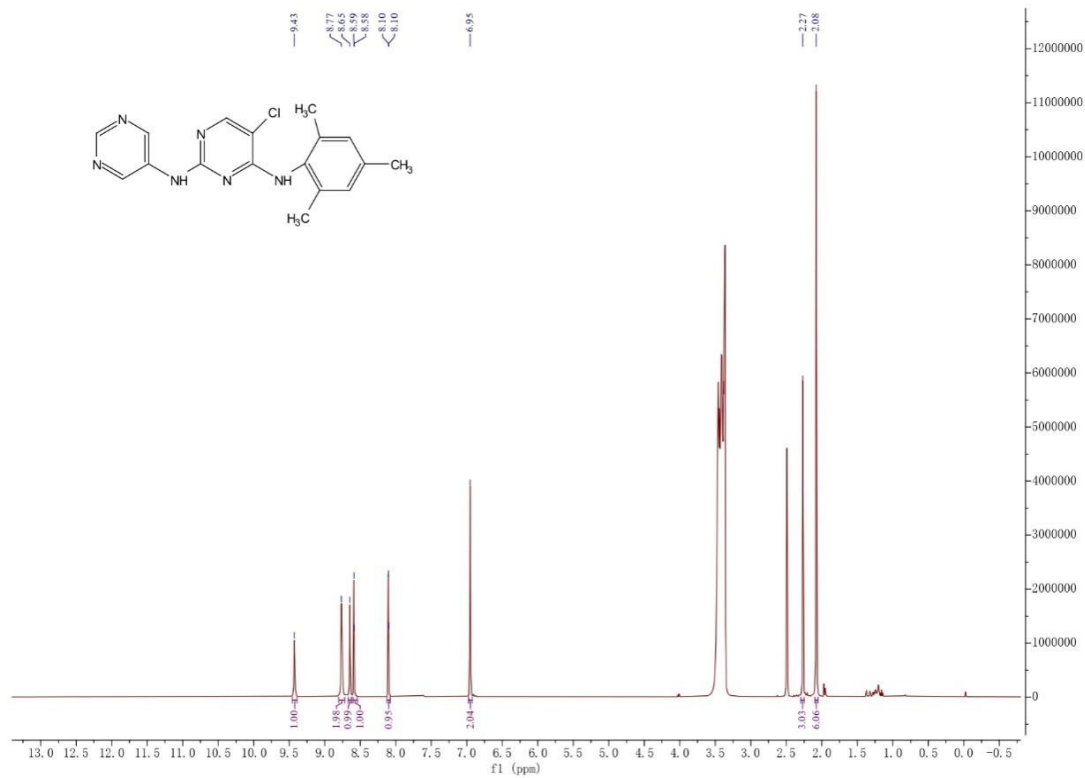


Figure S16. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **21**.



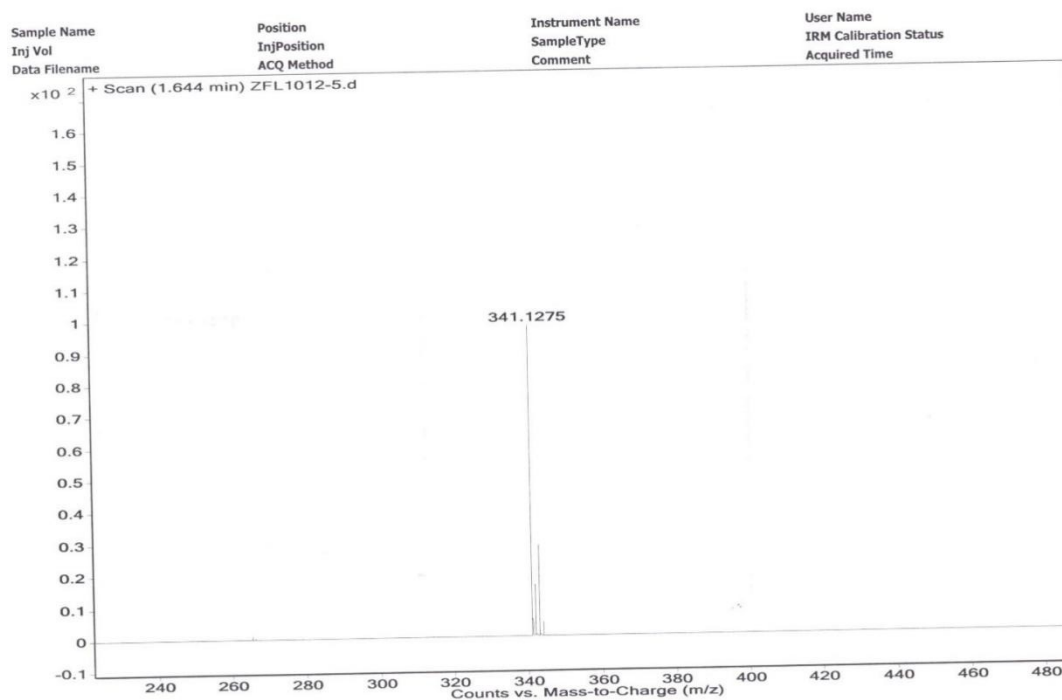
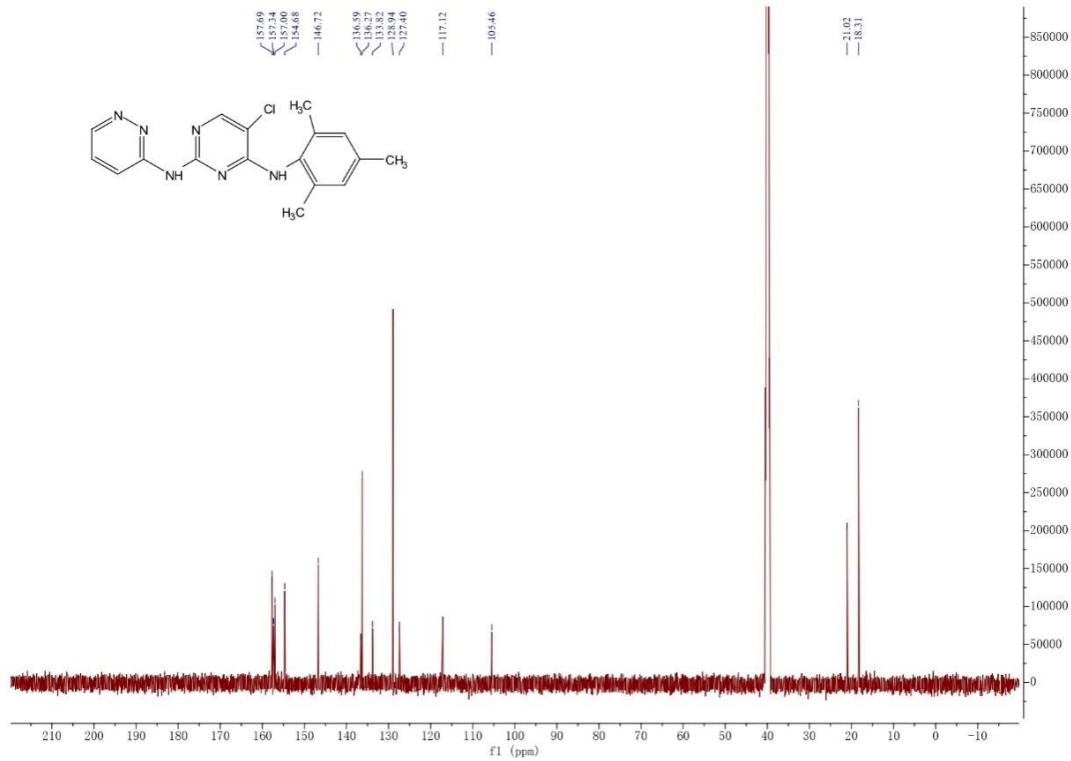
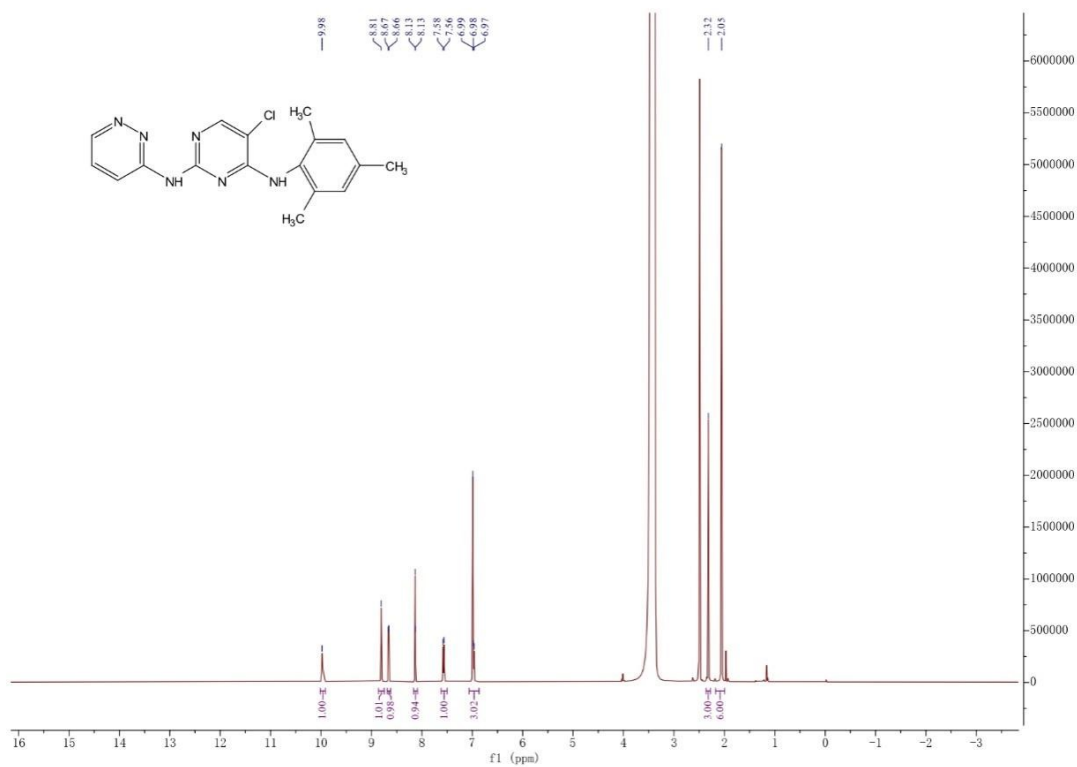


Figure S17. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **22**.



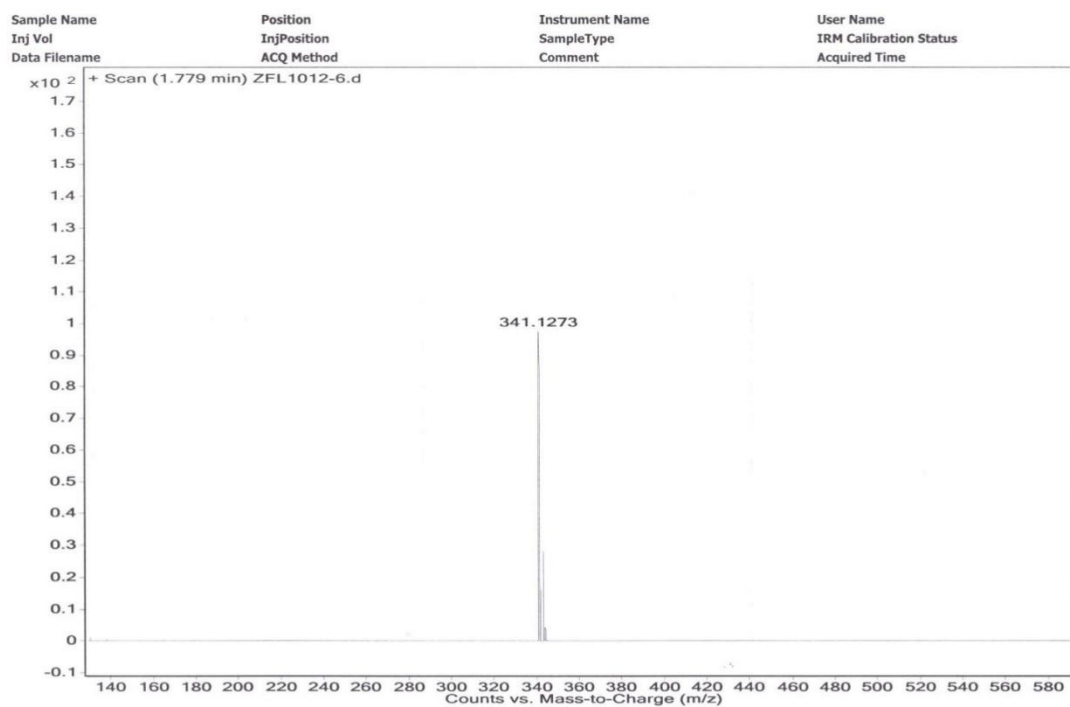
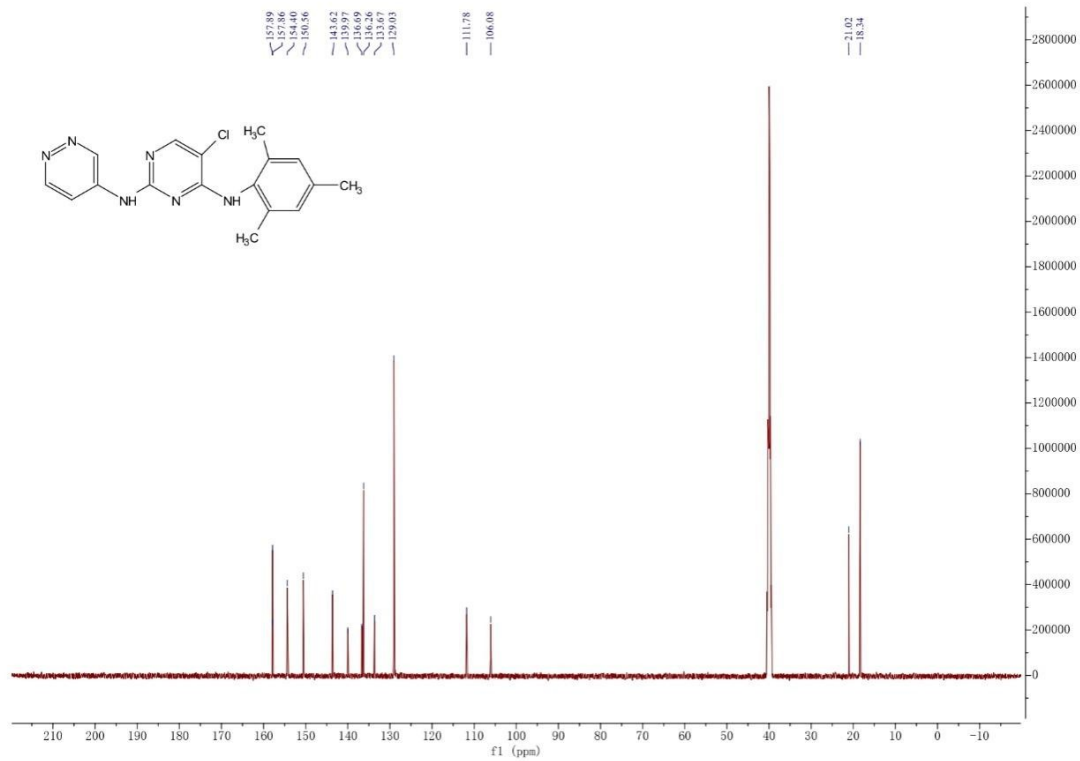
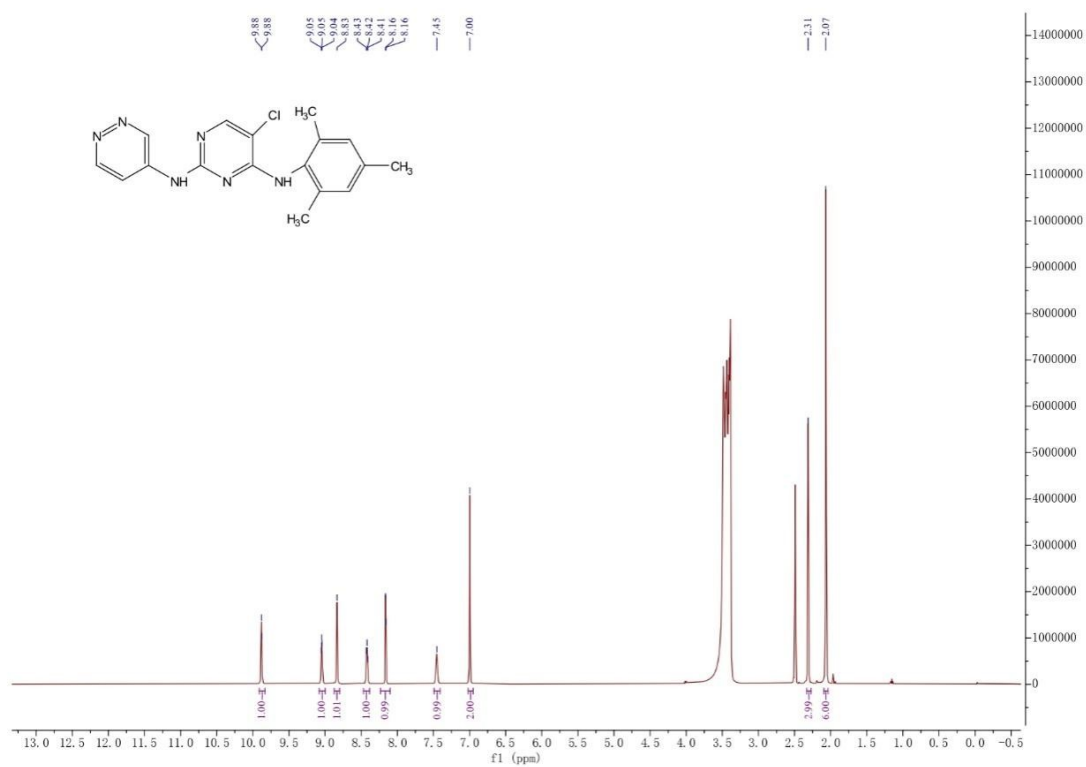


Figure S18. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **23**.



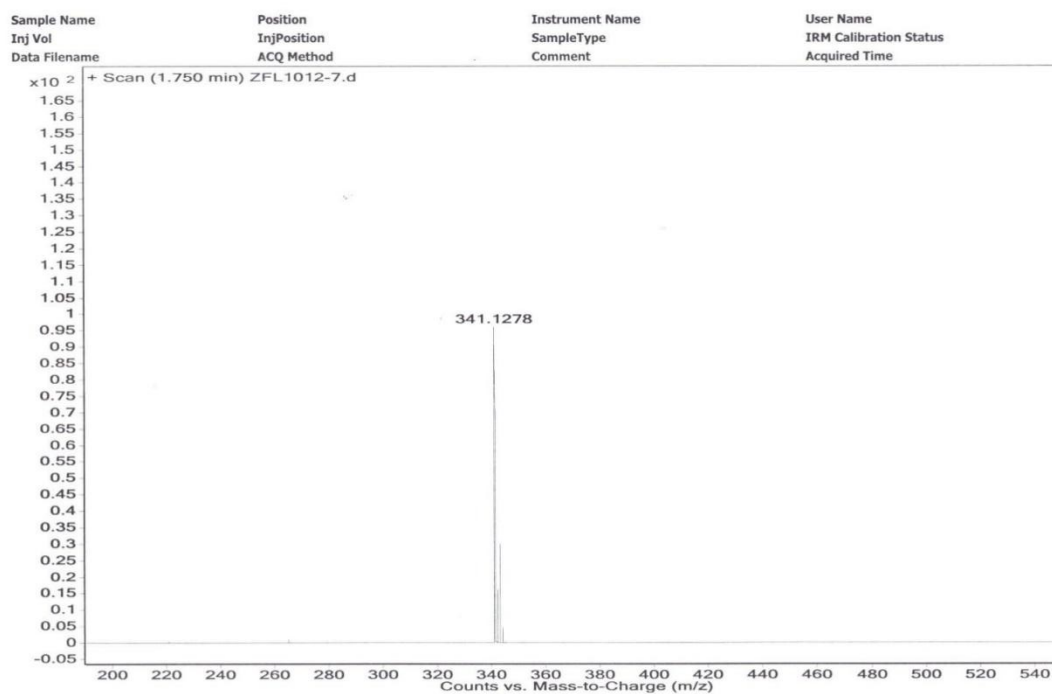
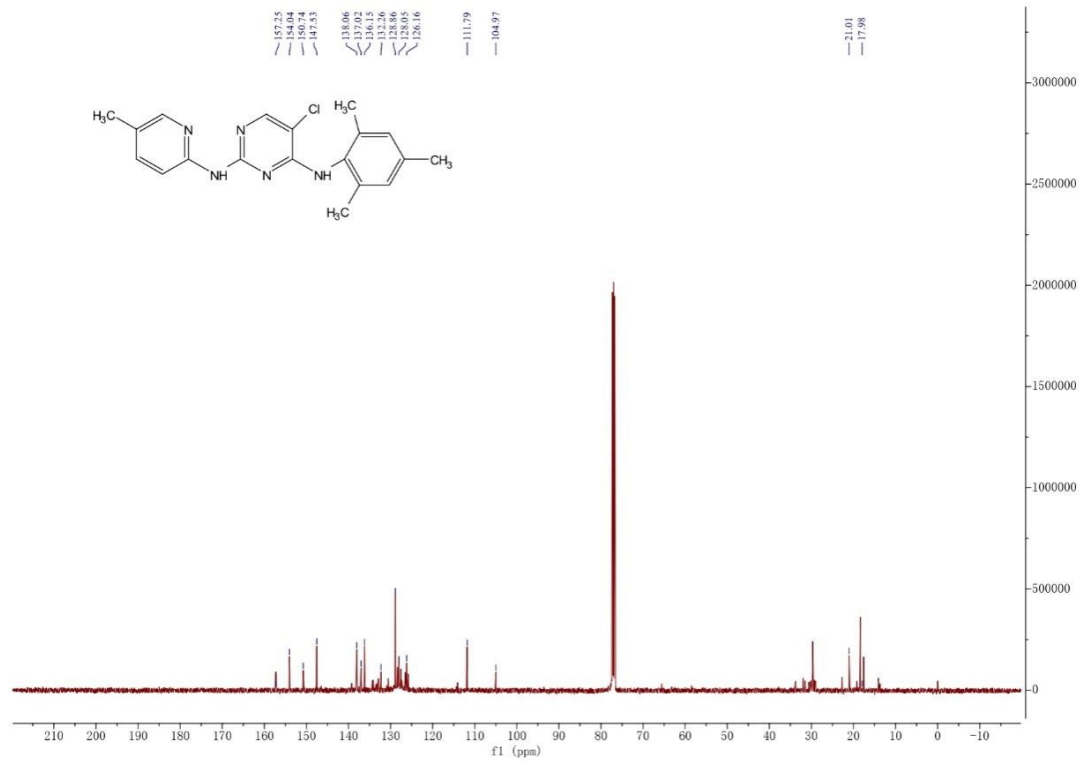
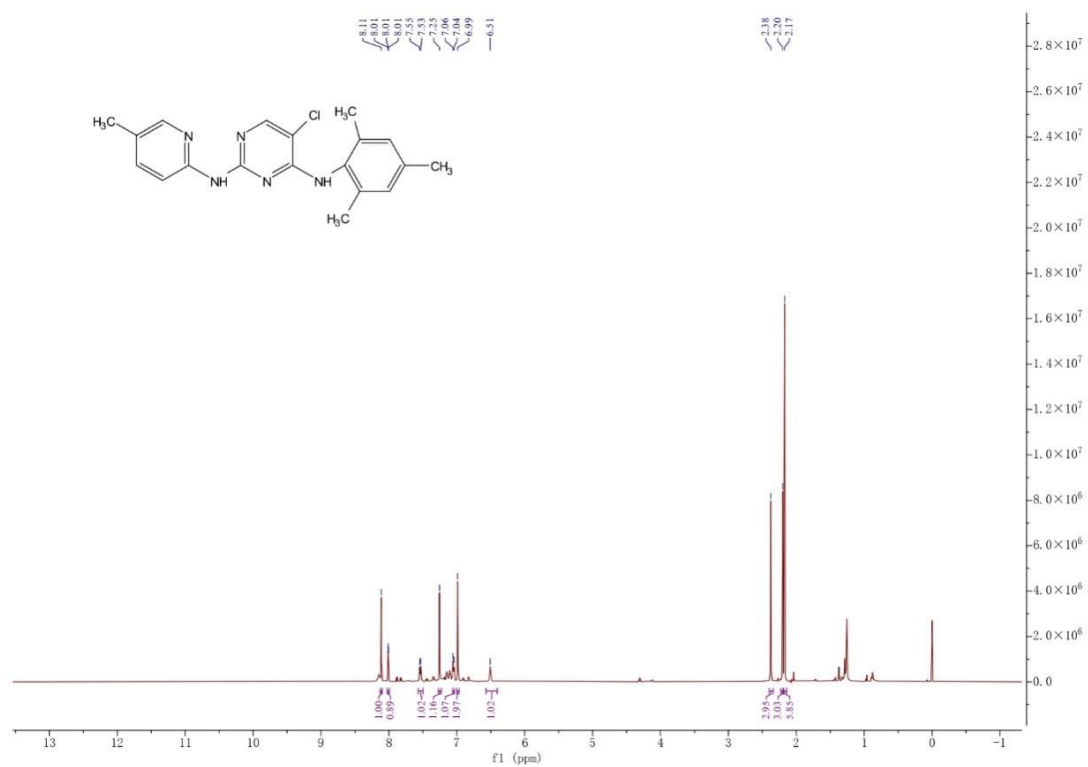


Figure S19. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **24**.



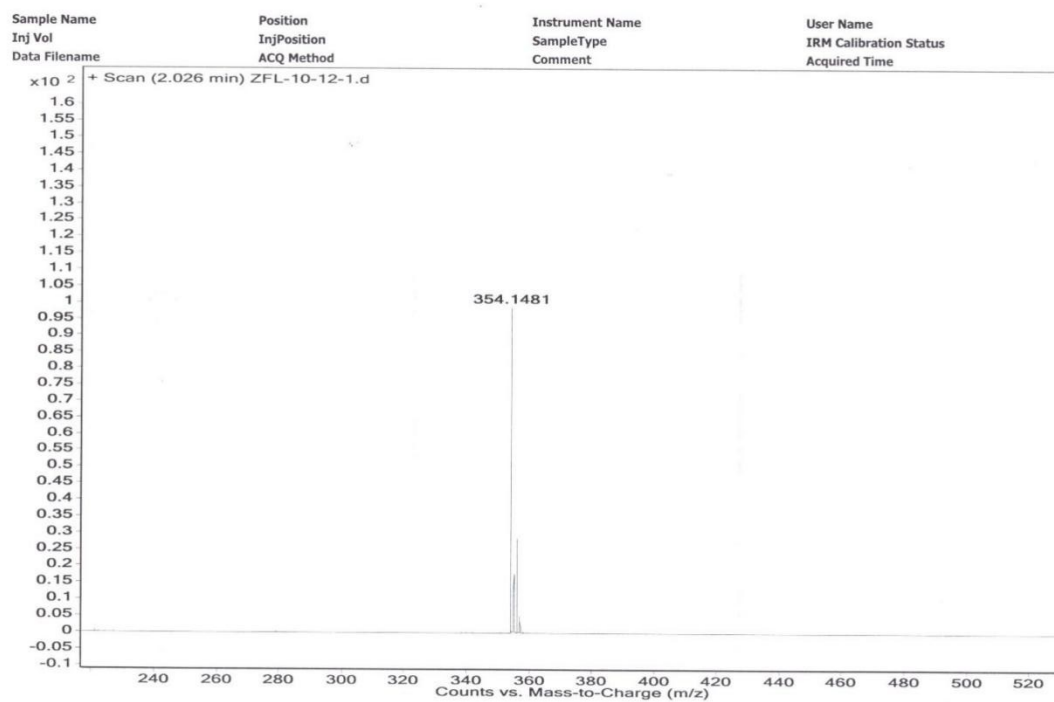
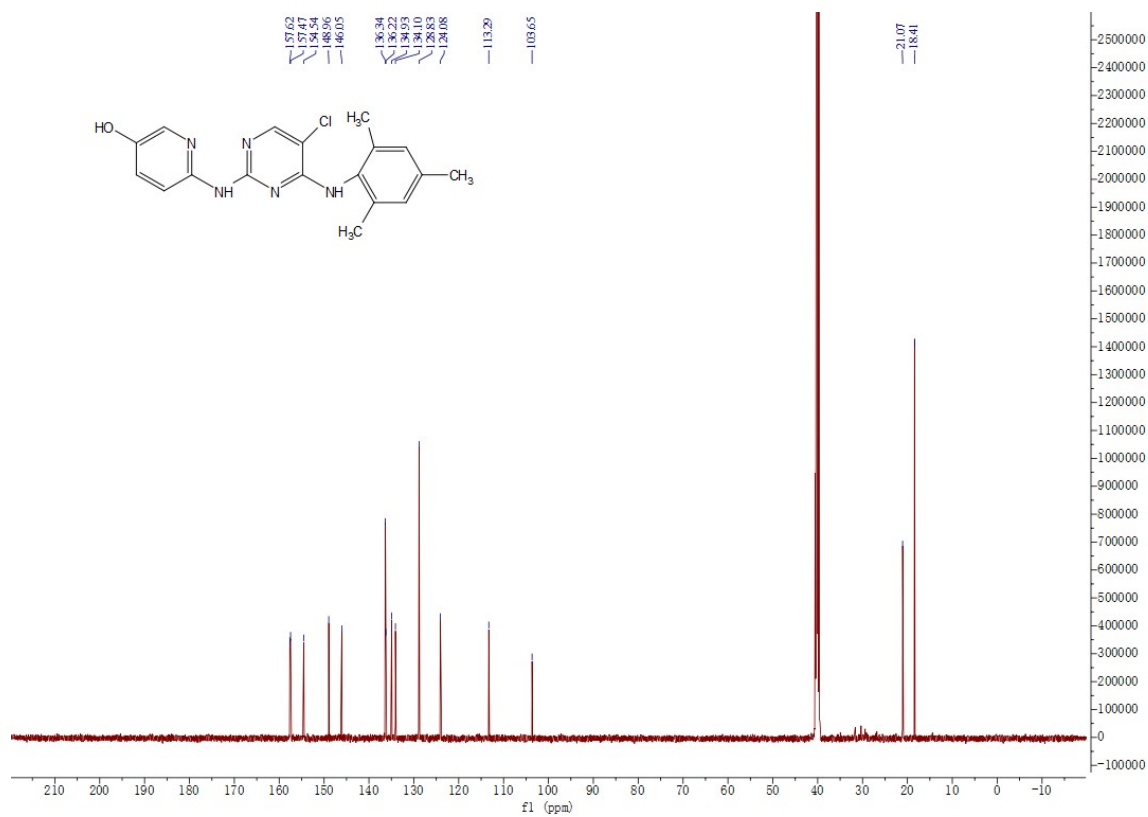
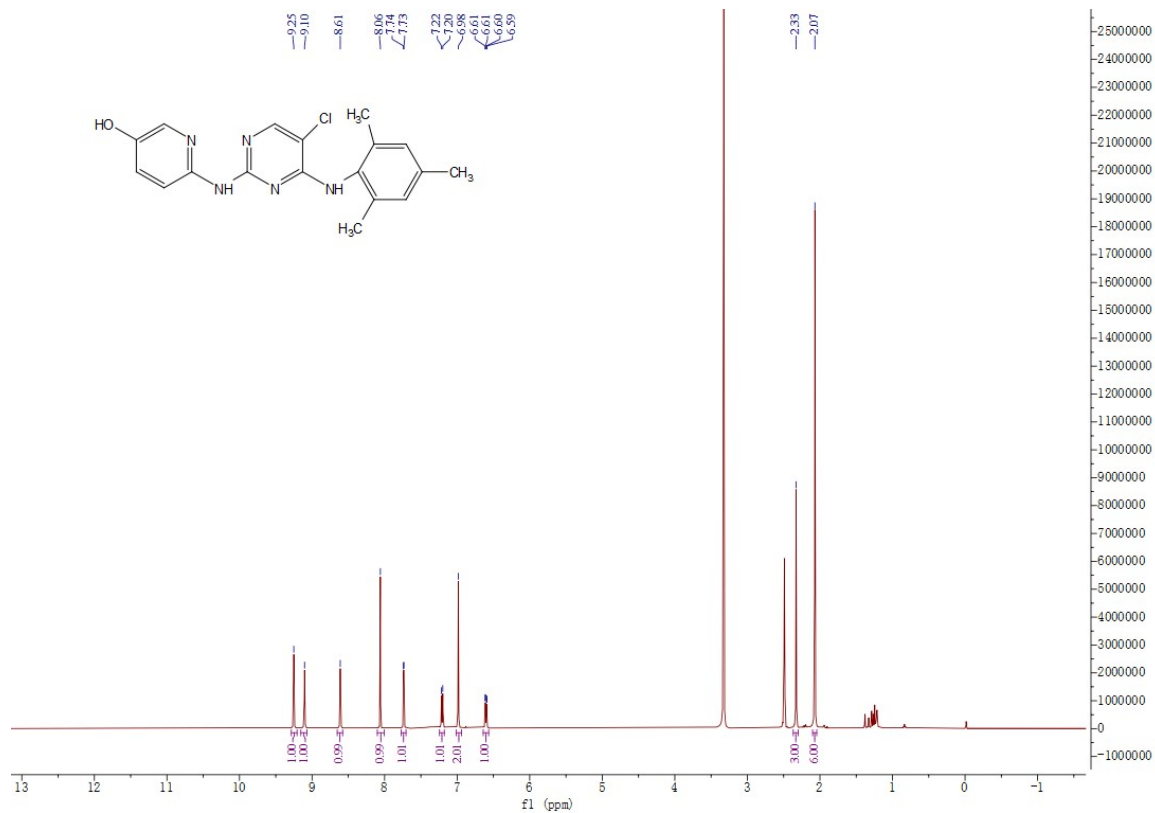


Figure S20. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **25**.



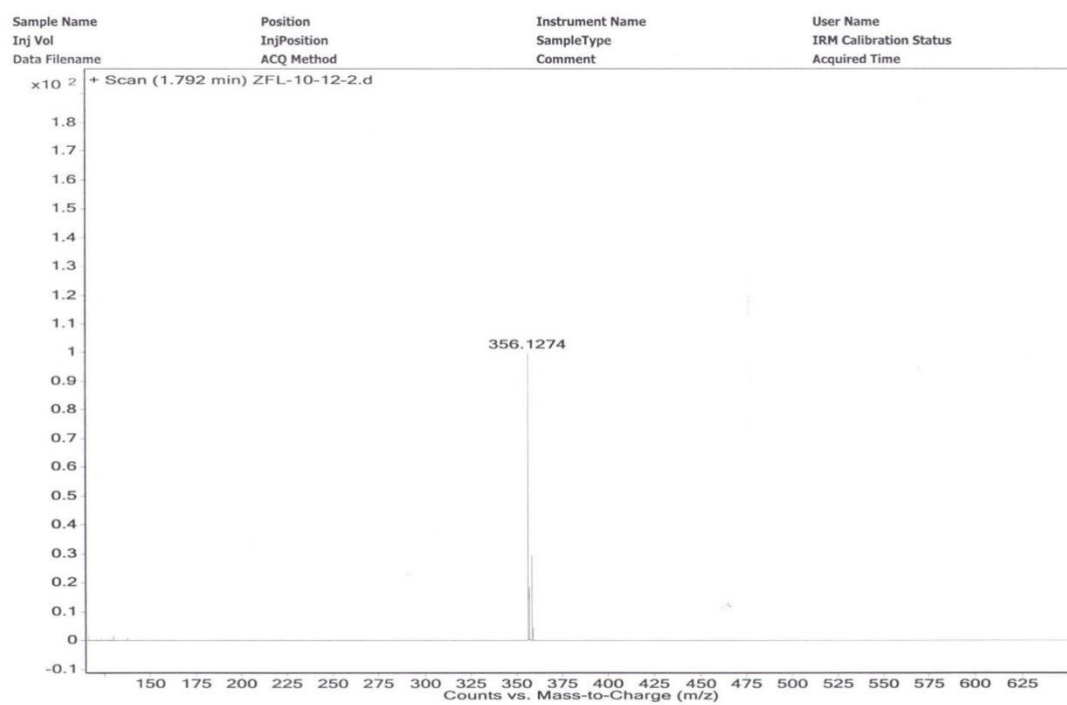
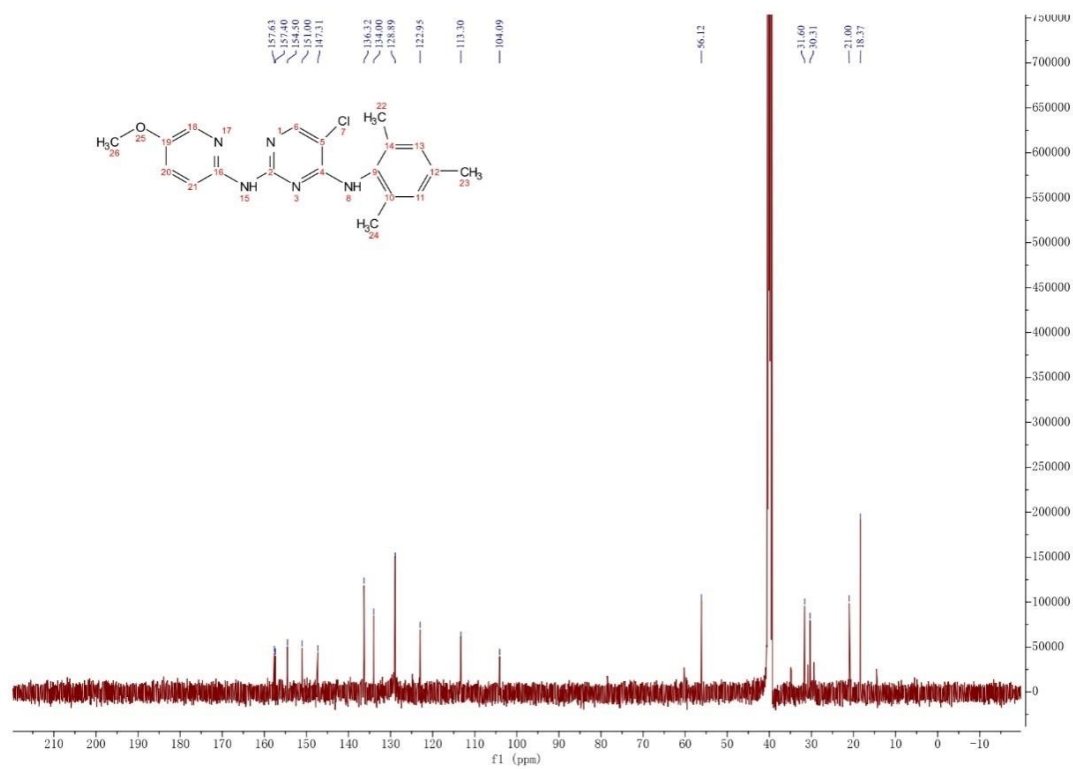
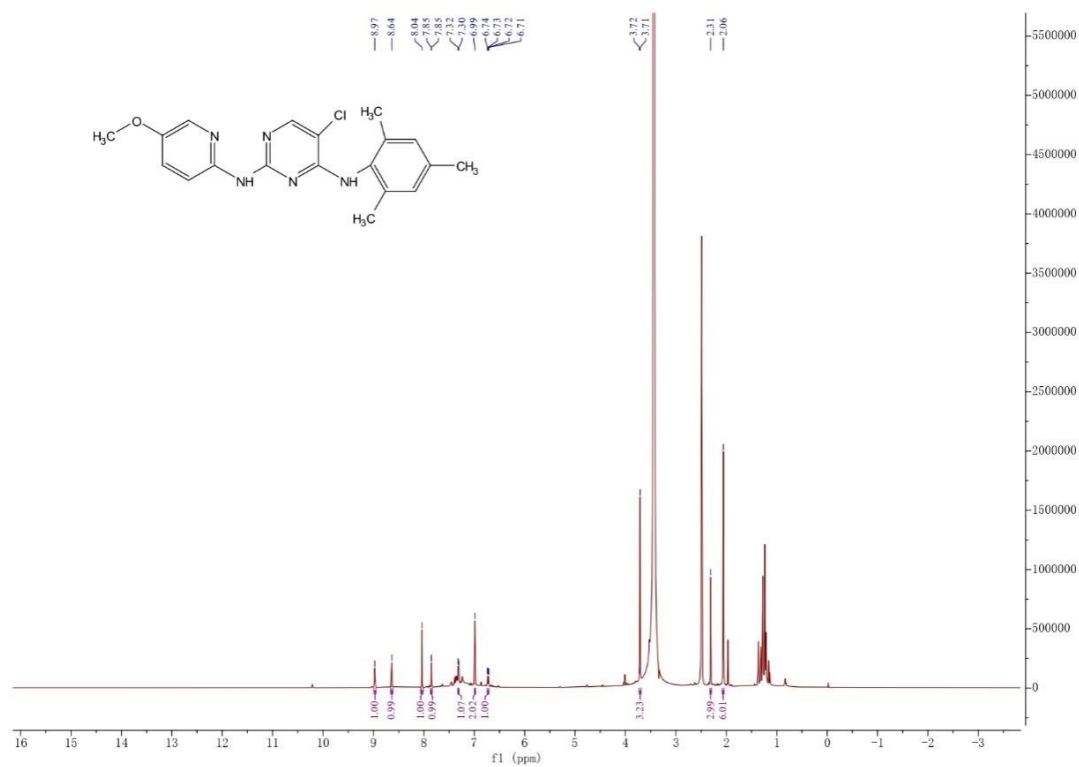


Figure S21. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **26**.



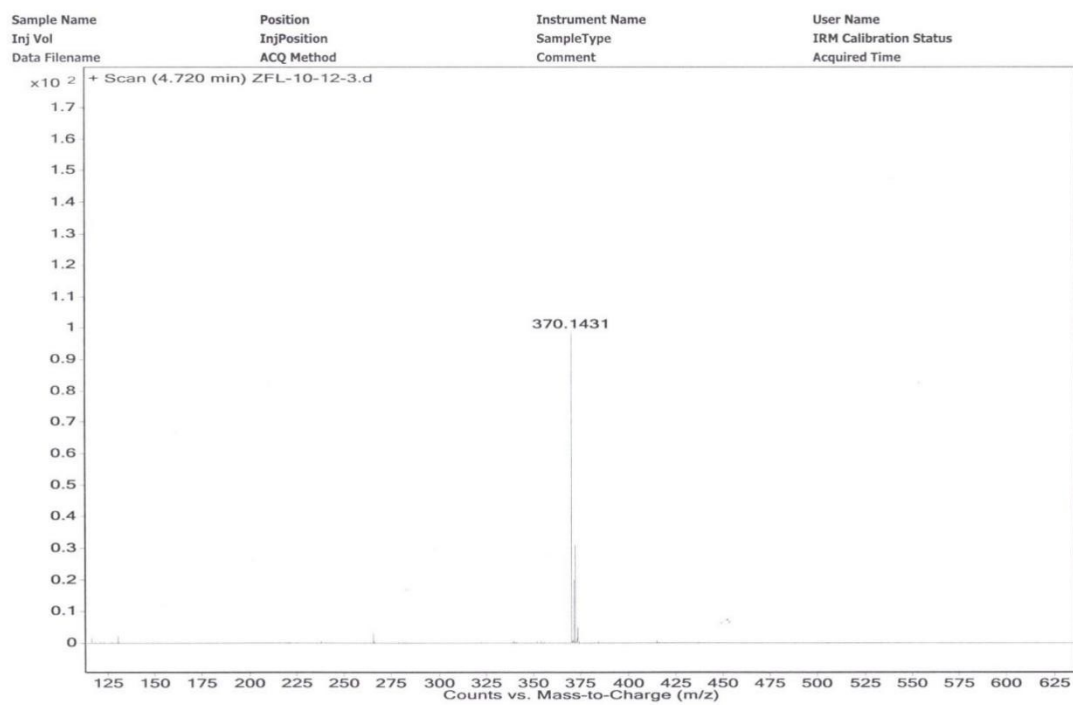


Figure S22. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **27**.

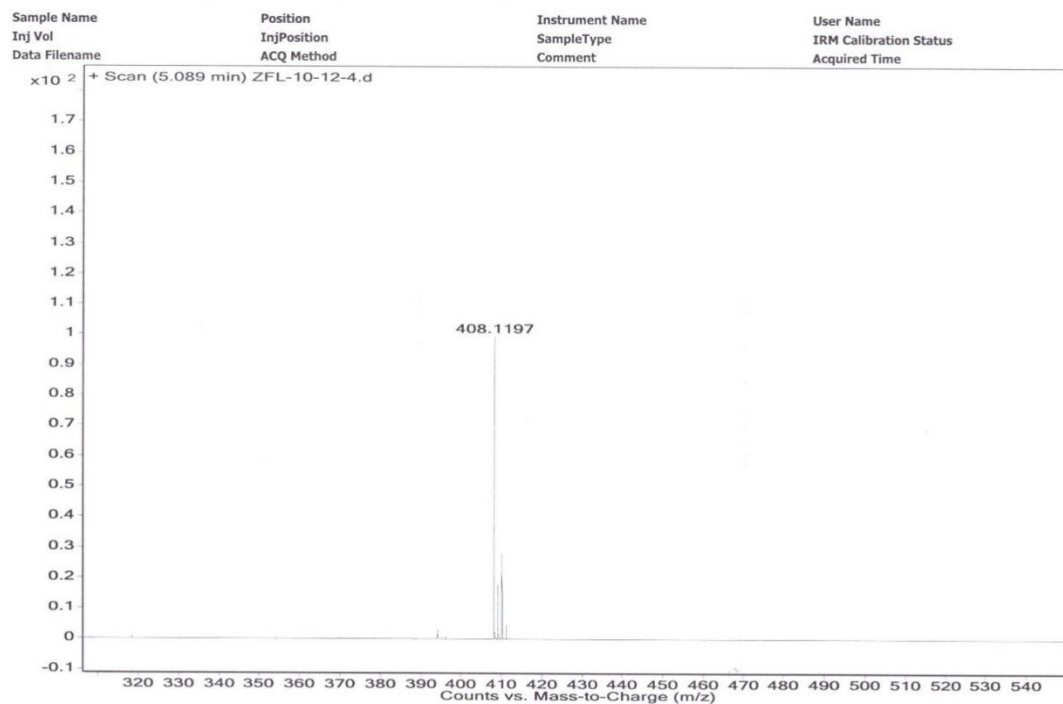
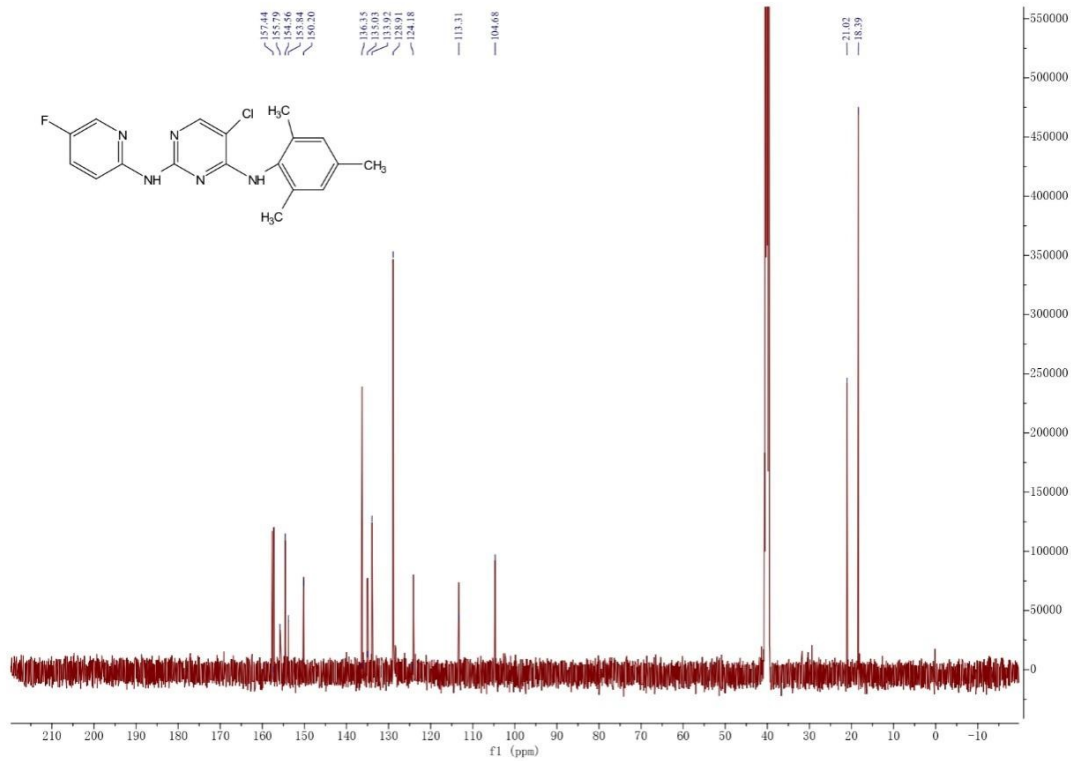
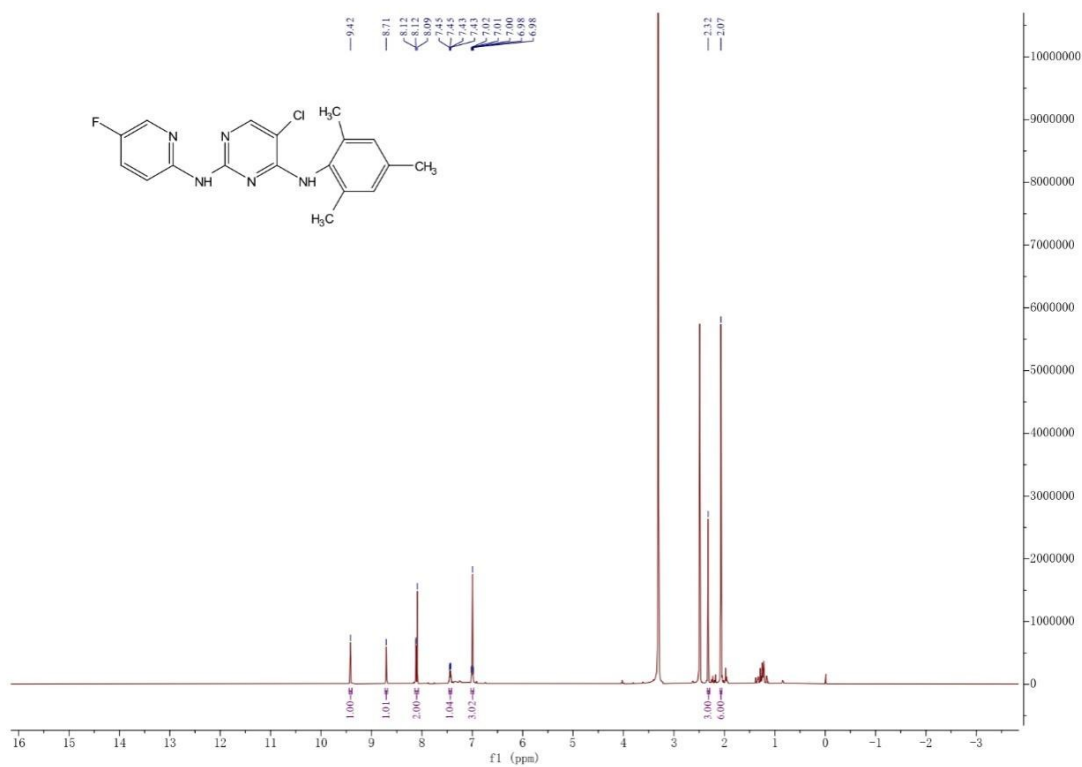


Figure S23. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **28**.



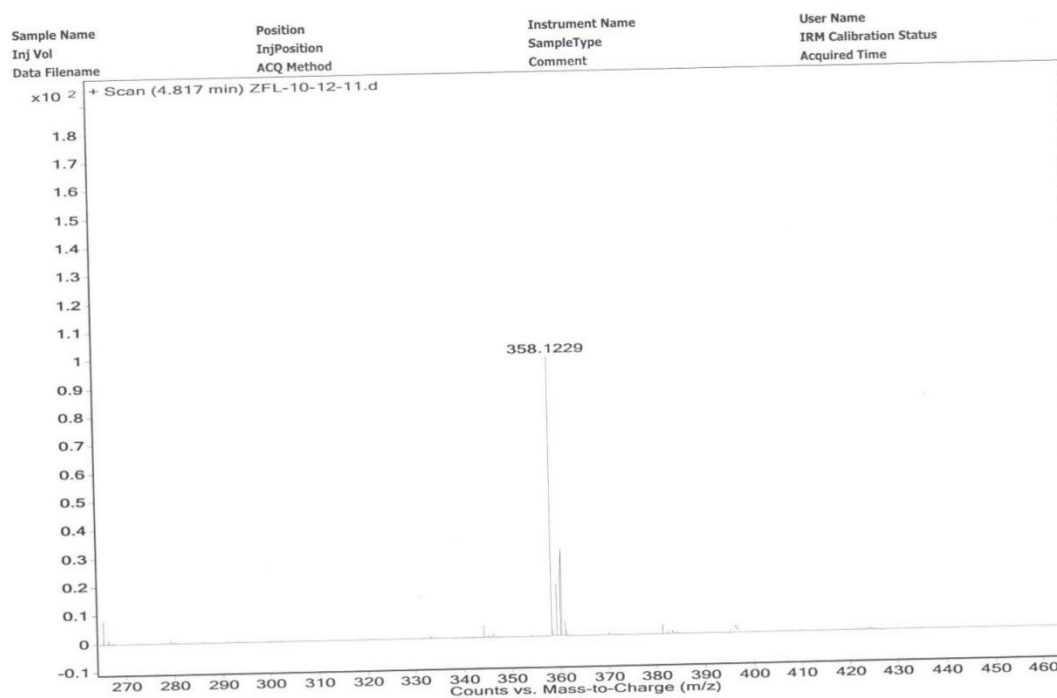
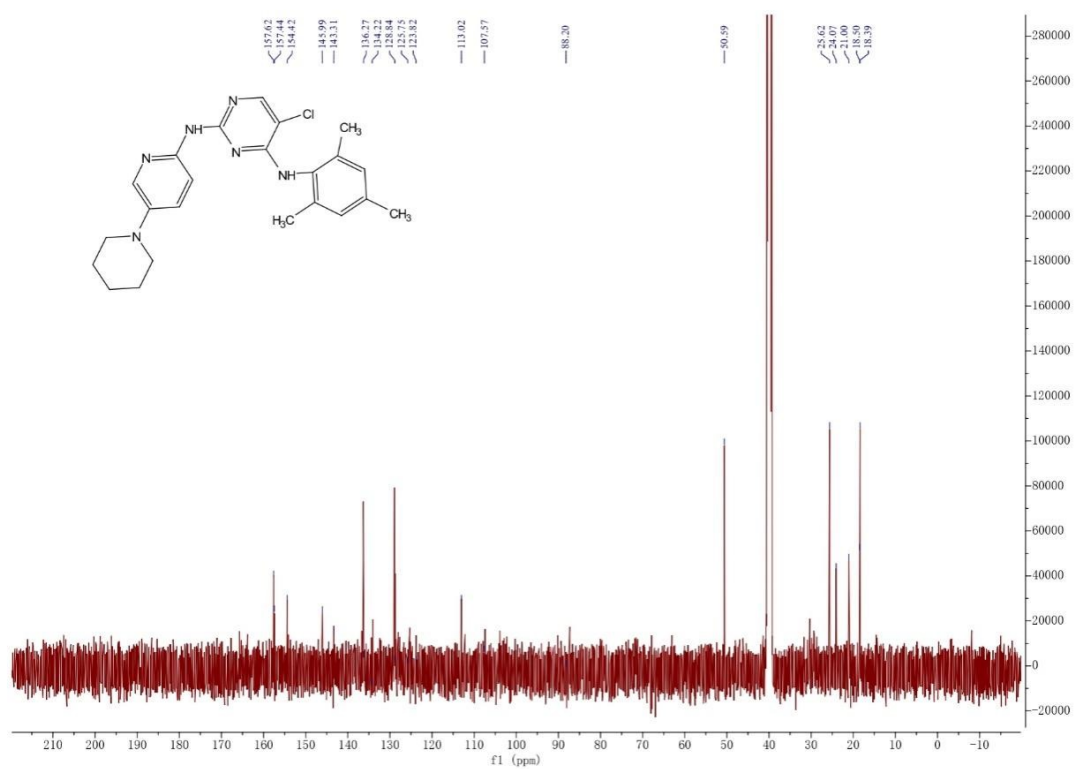
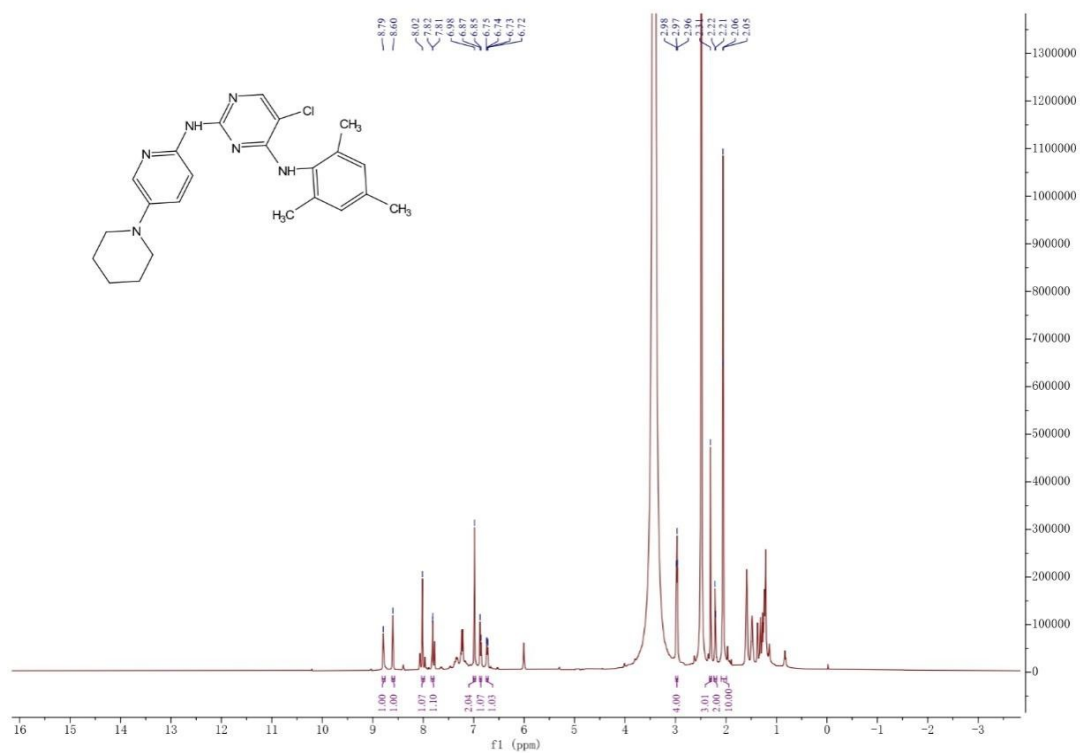


Figure S24. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **29**.



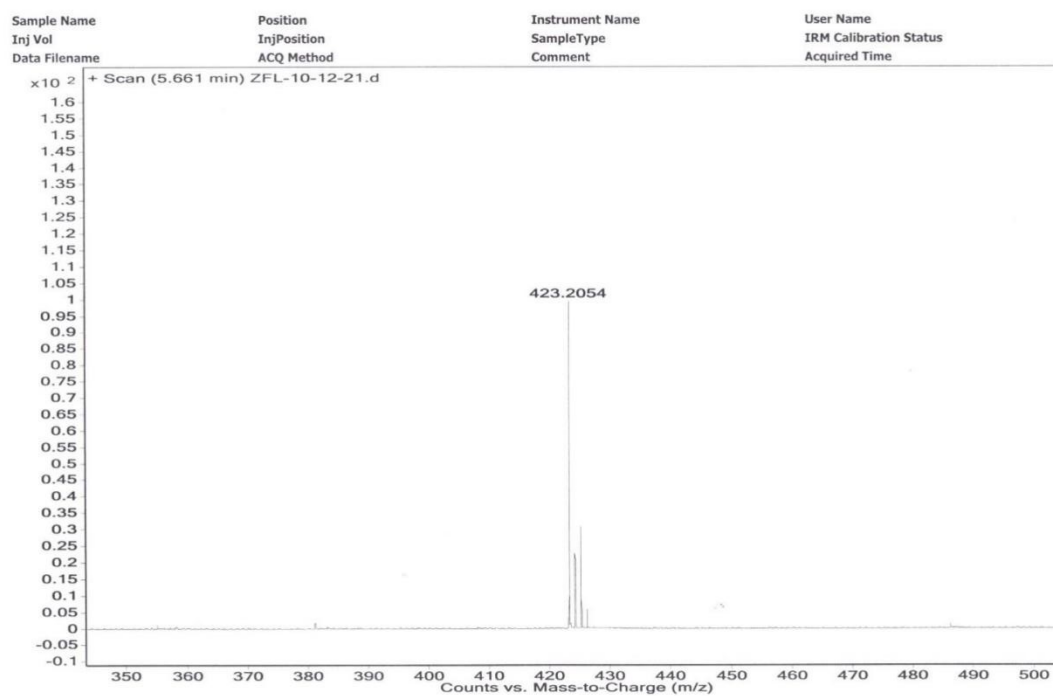
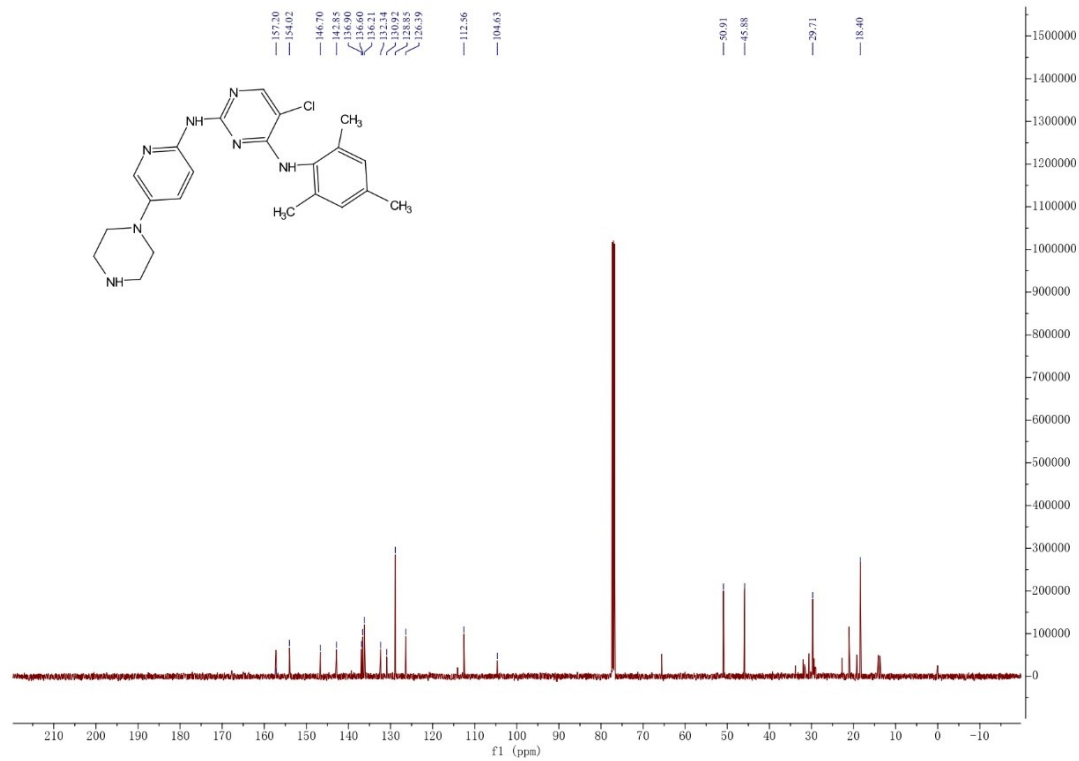
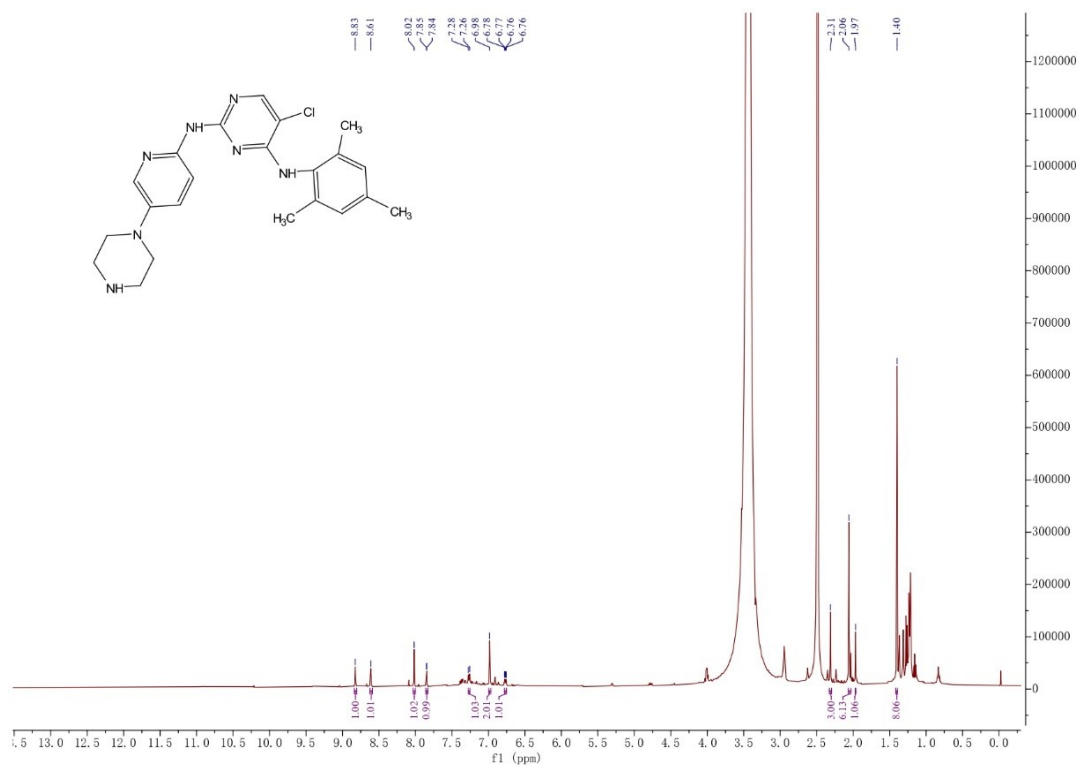


Figure S25. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **30**.



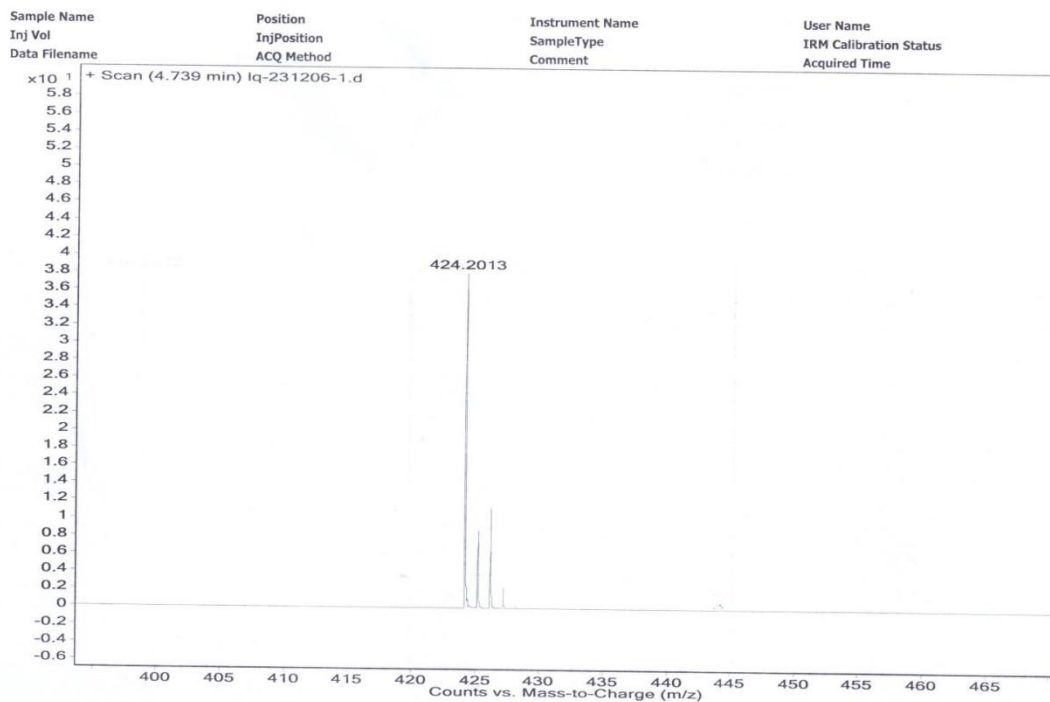
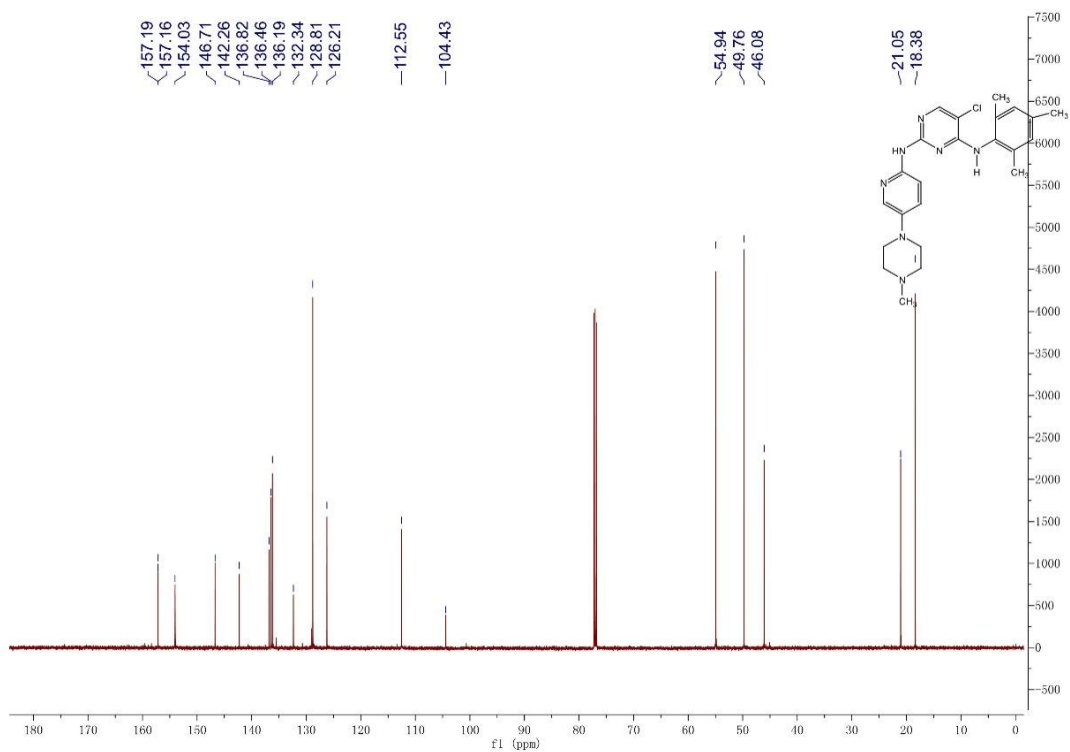
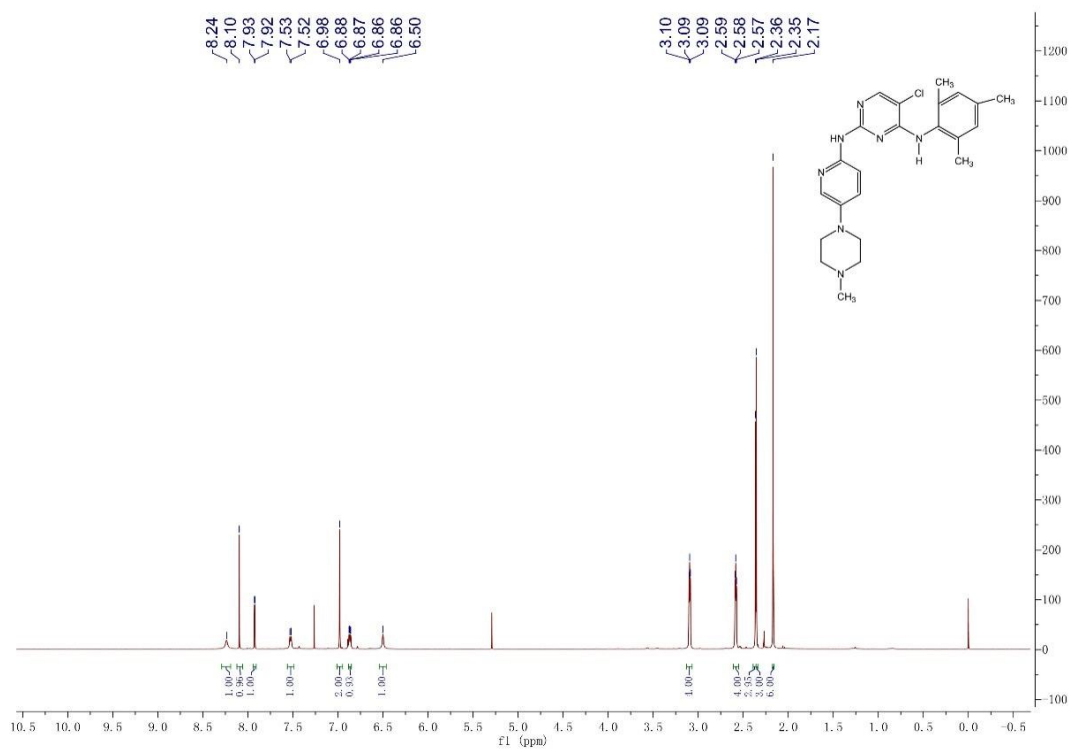


Figure S26. The ¹H NMR, ¹³C NMR and ESI-HRMS spectra of compound **31**.



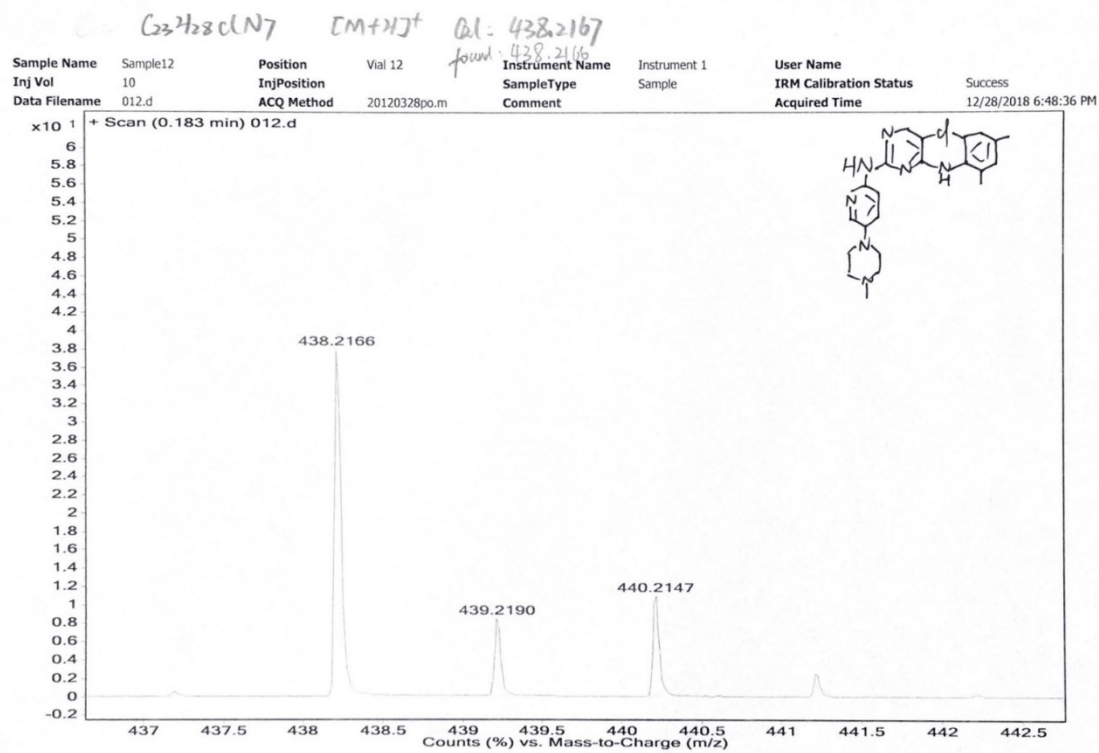
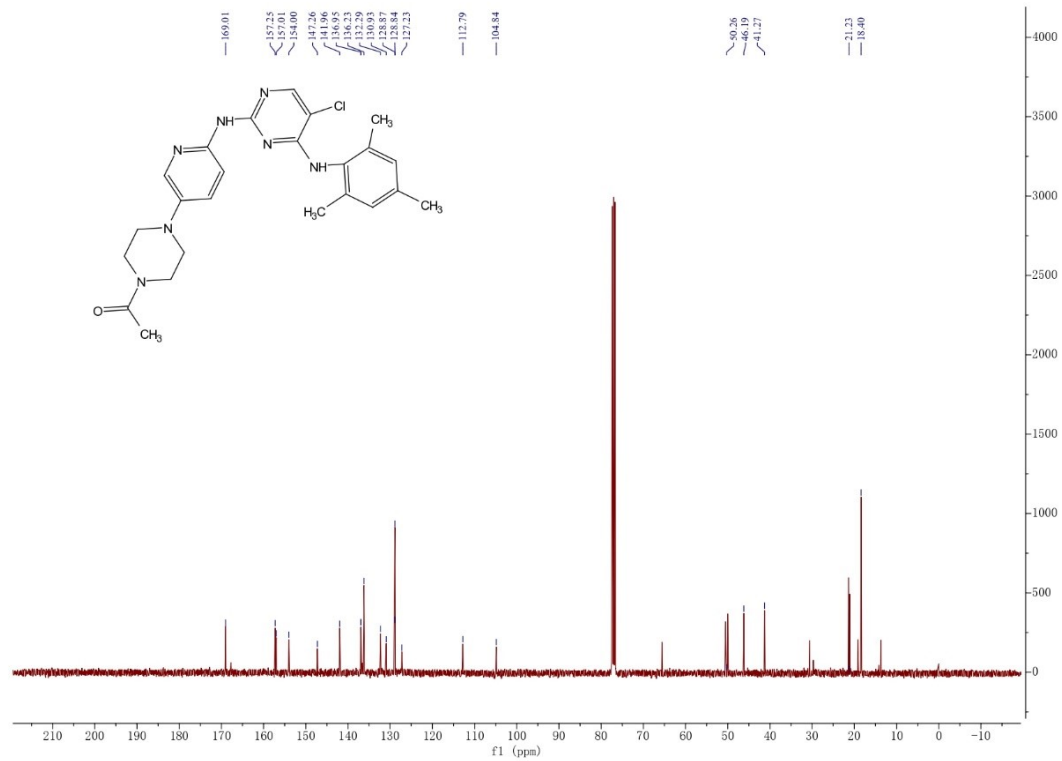
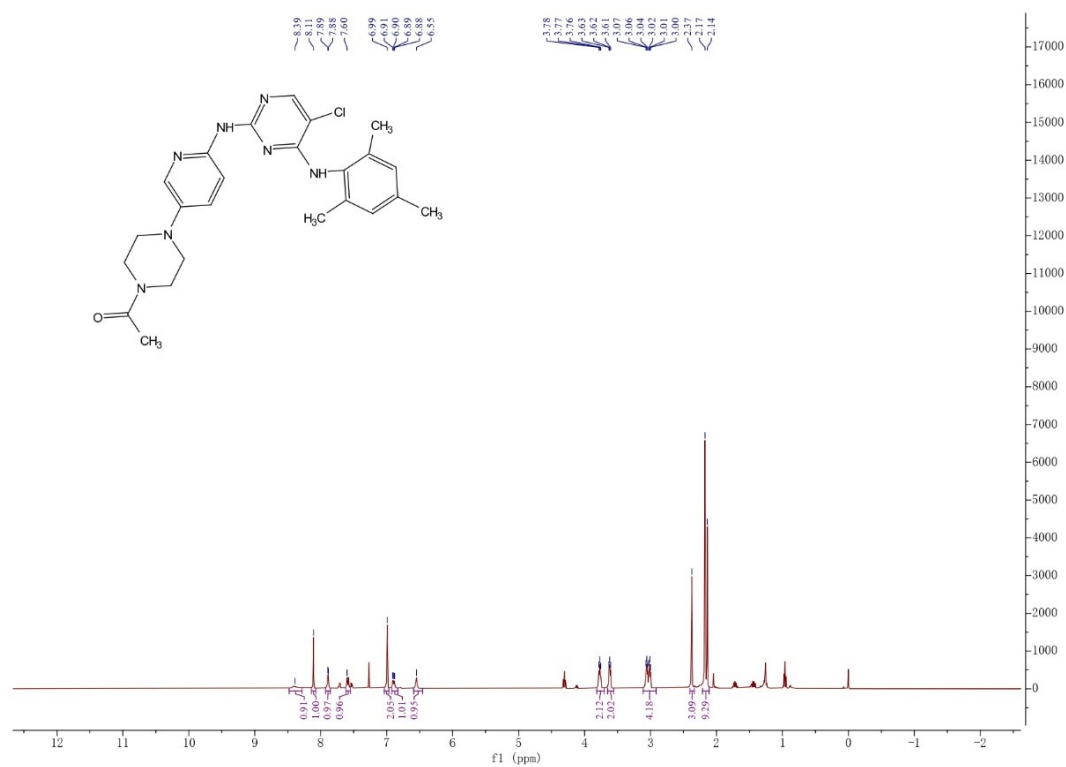


Figure S27. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **32**.



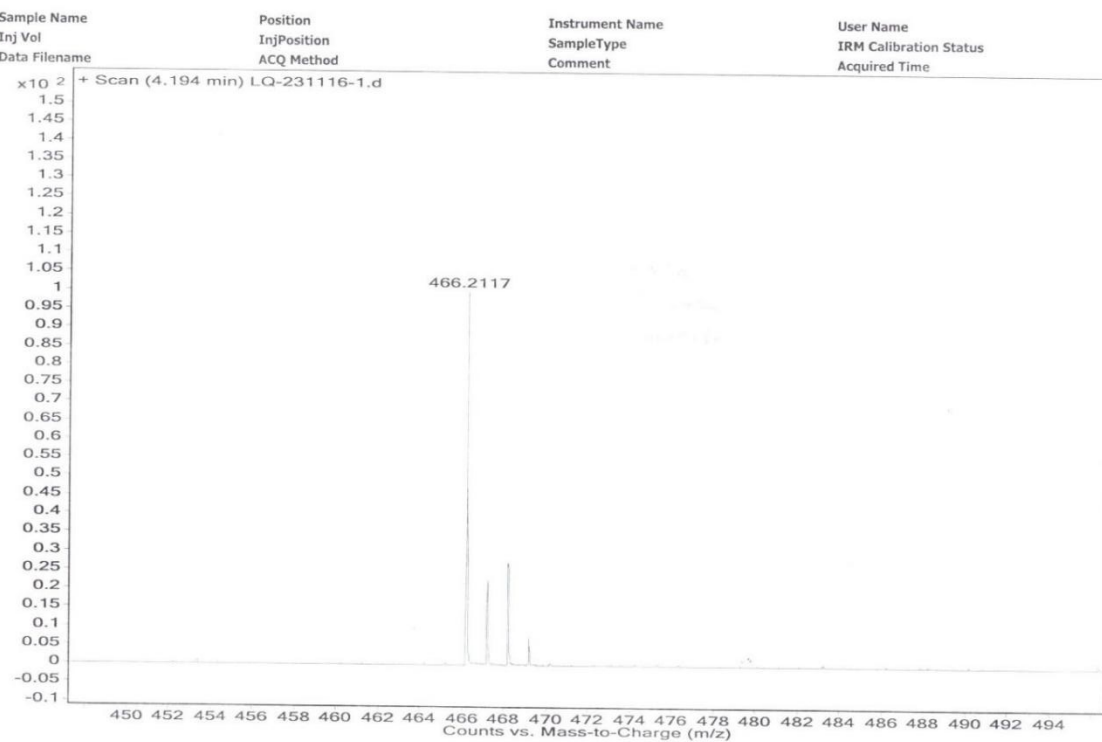


Figure S28. The ^1H NMR, ^{13}C NMR and ESI-HRMS spectra of compound **33**.

2. Example of original western blot for three repeats

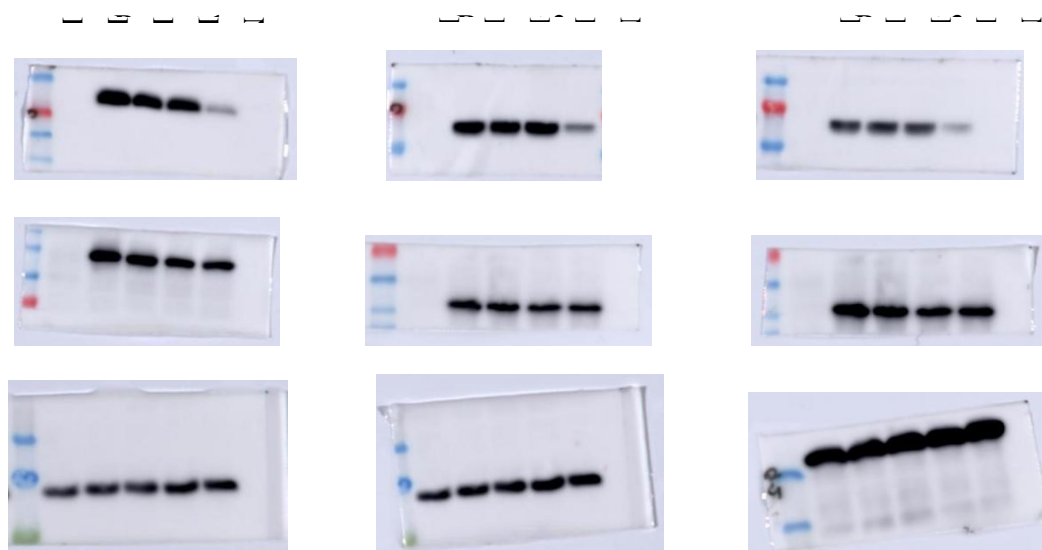


Figure S29. Example of original western blot for three repeats shown in Fig.1D.

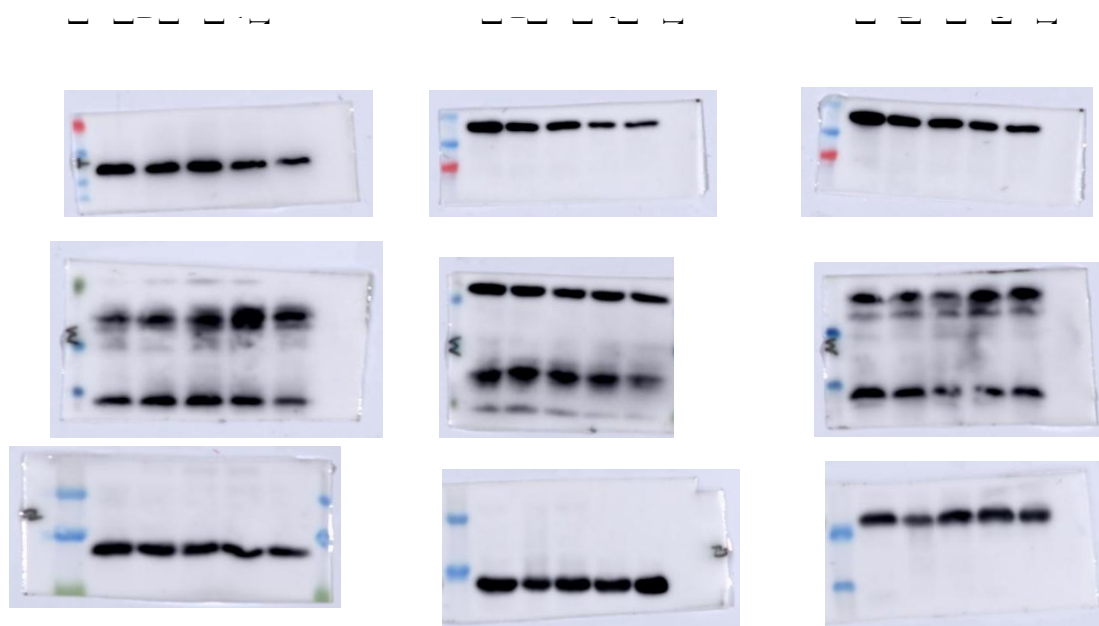


Figure S30. Example of original western blot for three repeats shown in Fig.2A.

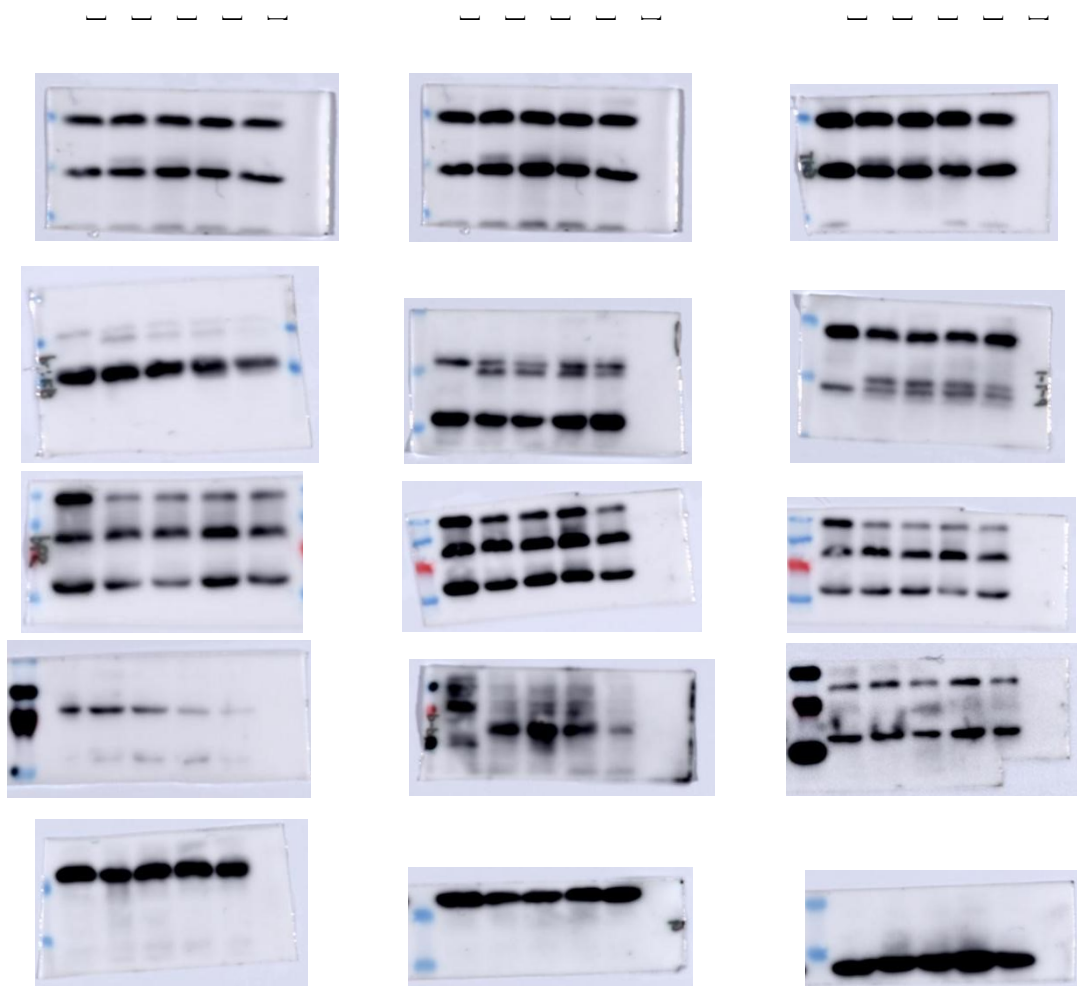


Figure S31. Example of original western blot for three repeats shown in Fig.2D.

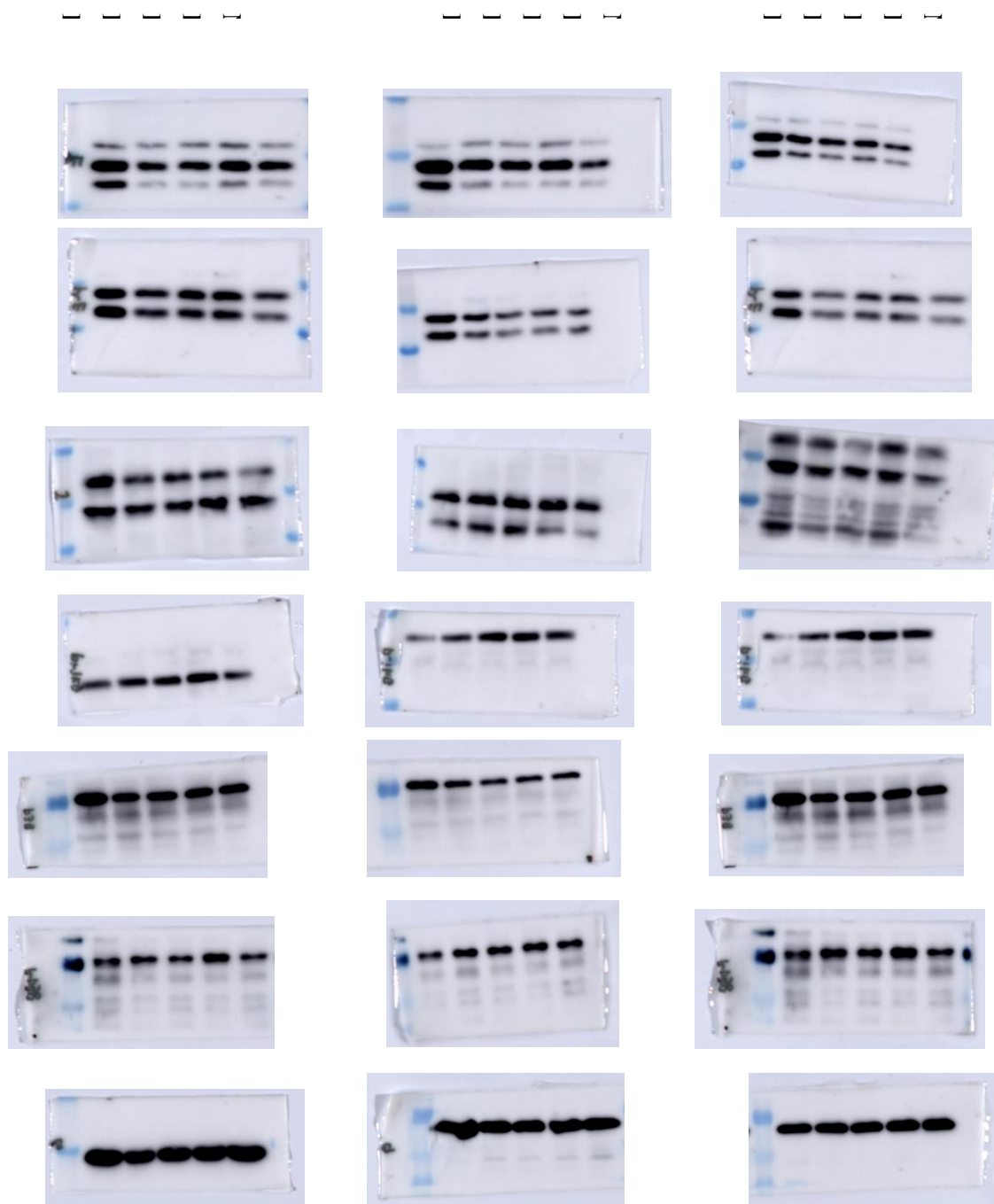


Figure S32. Example of original western blot for three repeats shown in Fig.3.

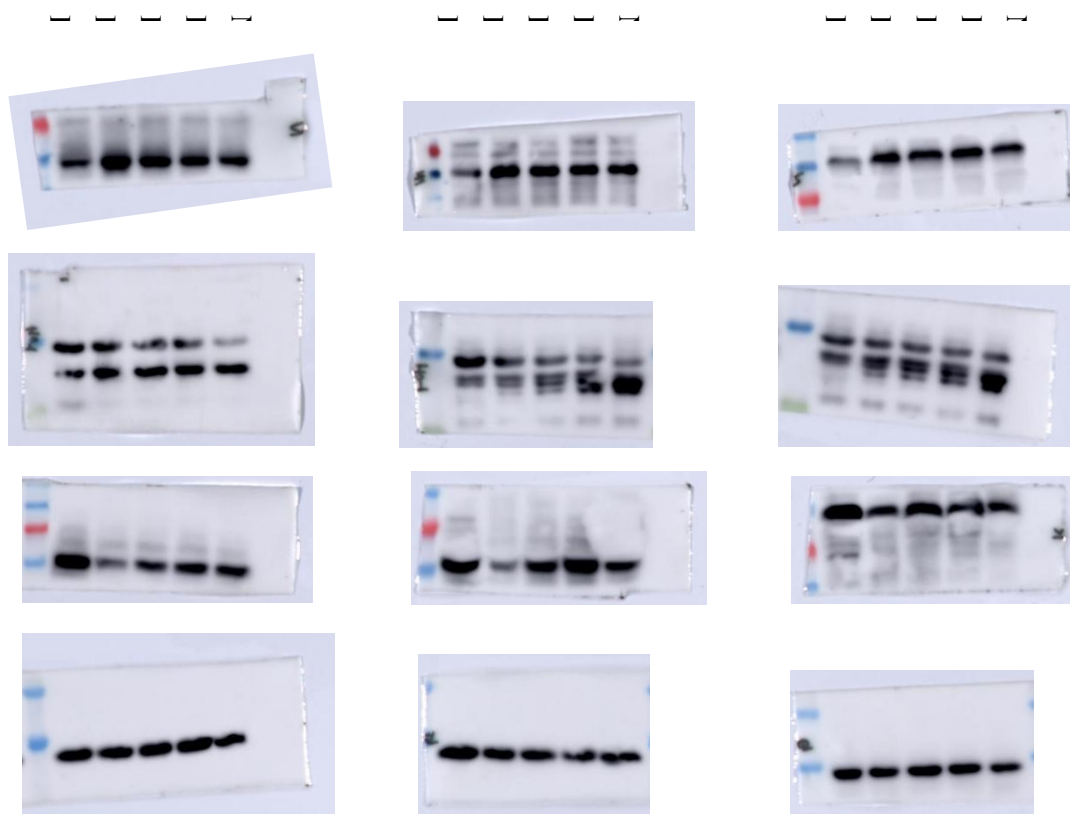


Figure S33. Example of original western blot for three repeats shown in Fig.4.

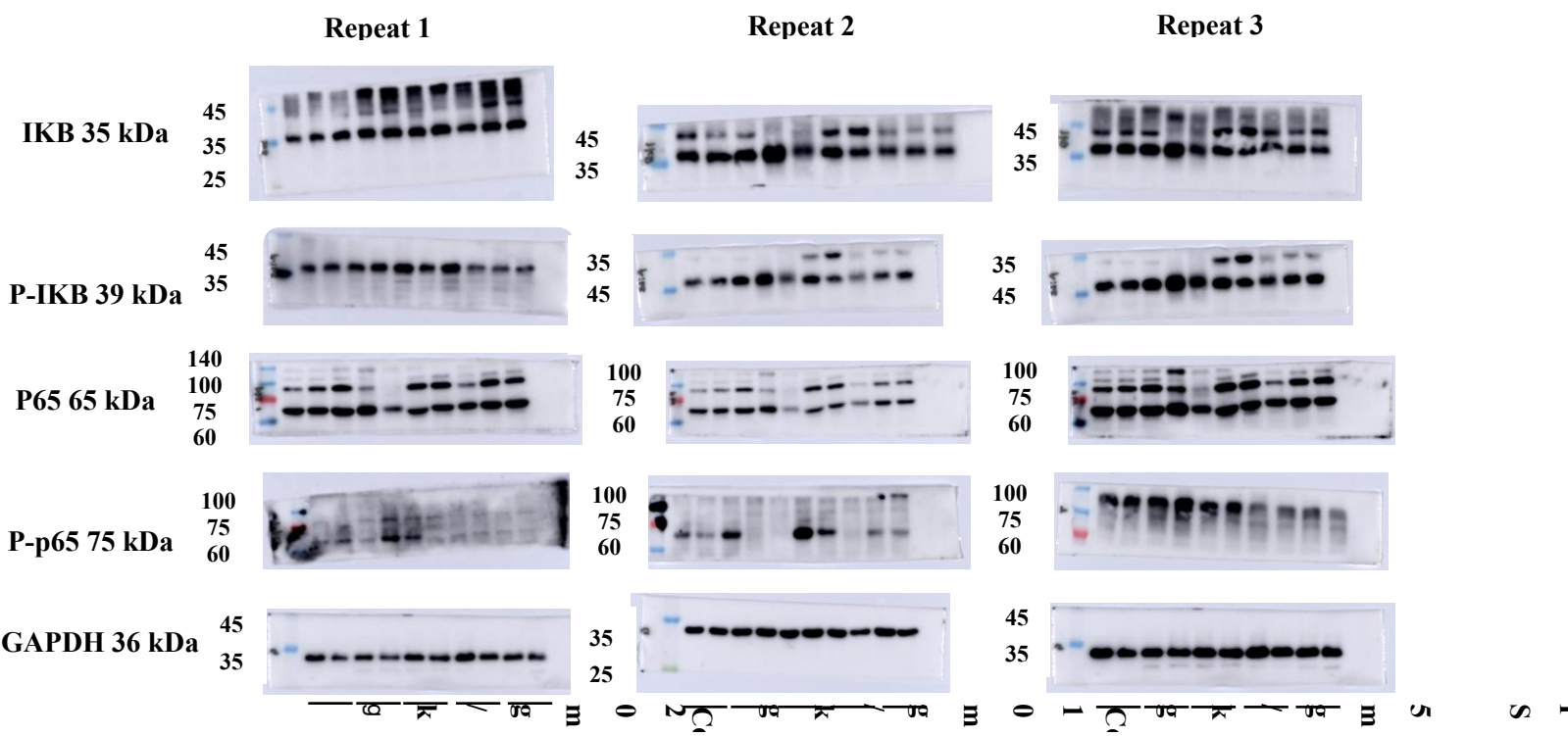


Figure S34. Example of original western blot for three repeats shown in Fig.8A.

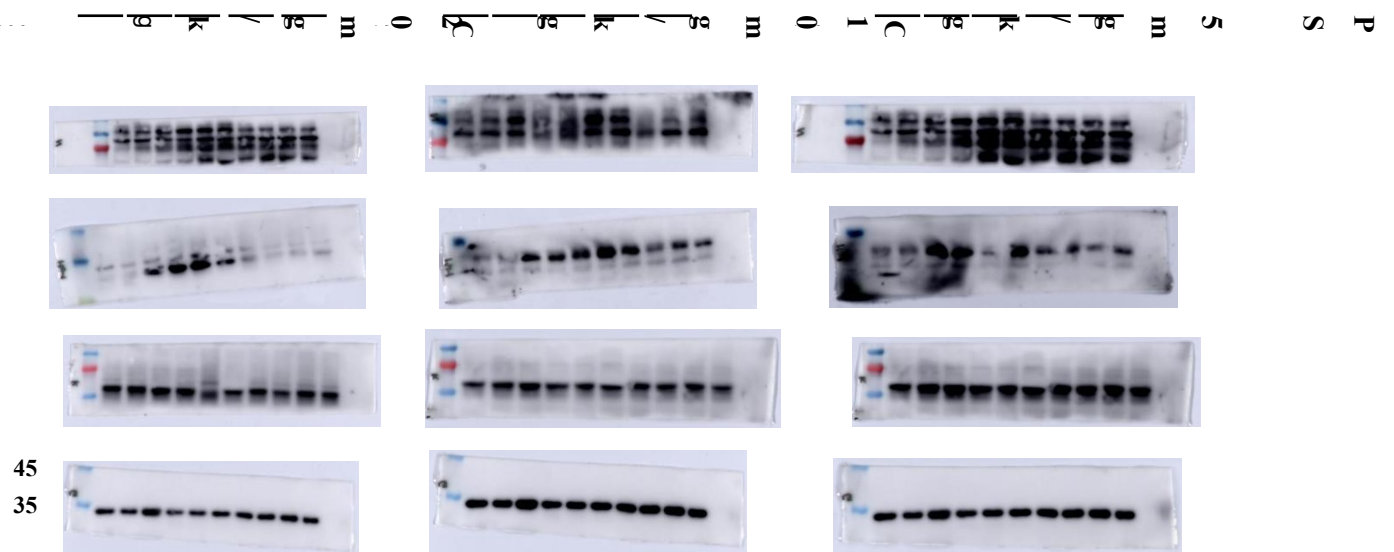


Figure S35. Example of original western blot for three repeats shown in Fig.8D.