

Electronic Supplementary Information

Palladium-catalysed *ortho*-acylation of 6-anilinopurines/purine nucleosides via

C-H activation

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| | | |
|----------|---|---------------|
| 1 | ORTEP for compound 2m | S2 |
| 2 | Copies of ¹H/¹³C NMR Spectra | S3-S26 |

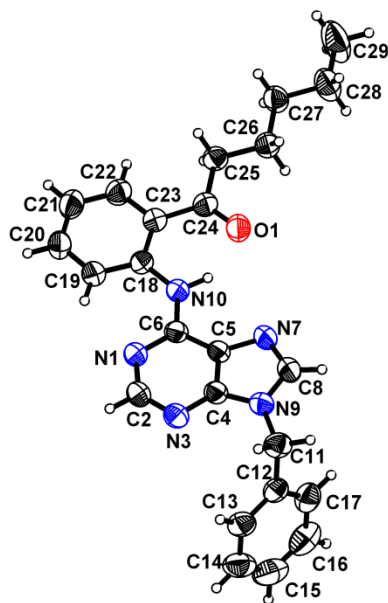


Figure S1. ORTEP for compound **2m**. Selected bond lengths [\AA] with esd's in parentheses:
C(24)-O(1) 1.2263(17), C(24)-C(23) 1.490(2), N(10)-C(18) 1.3964(19), N(10)-C(6) 1.3621(18),
N(9)-C(11) 1.4604(18).

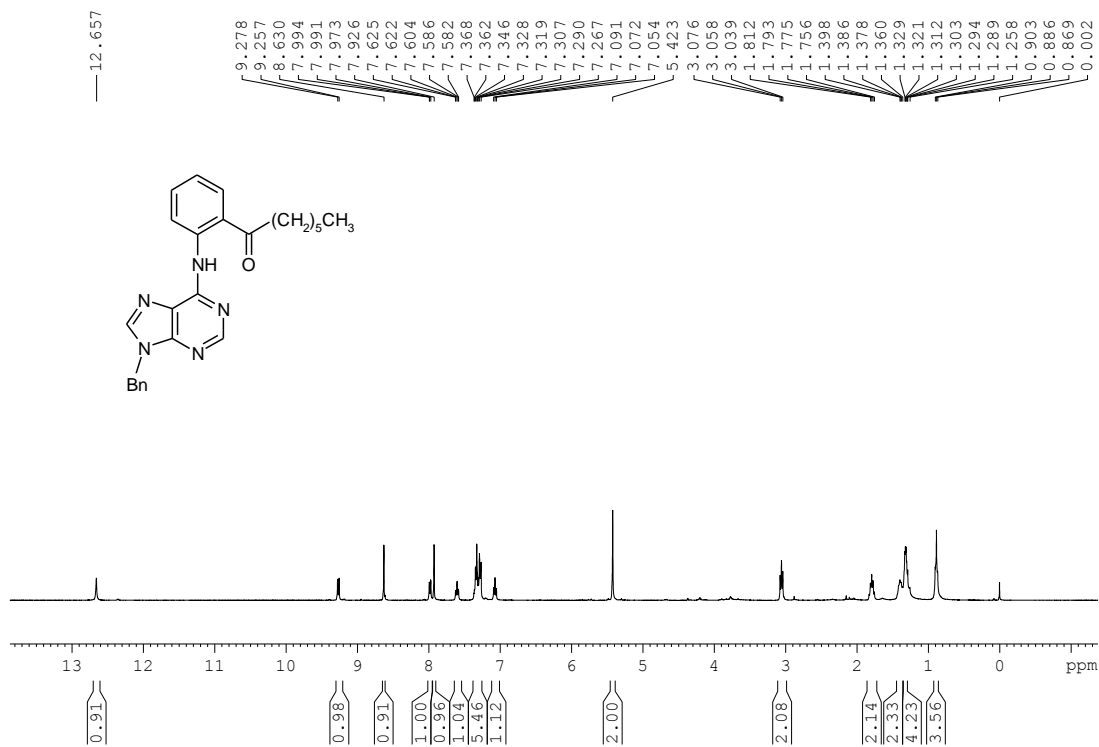


Figure S2. ^1H NMR spectrum of compound **2a**

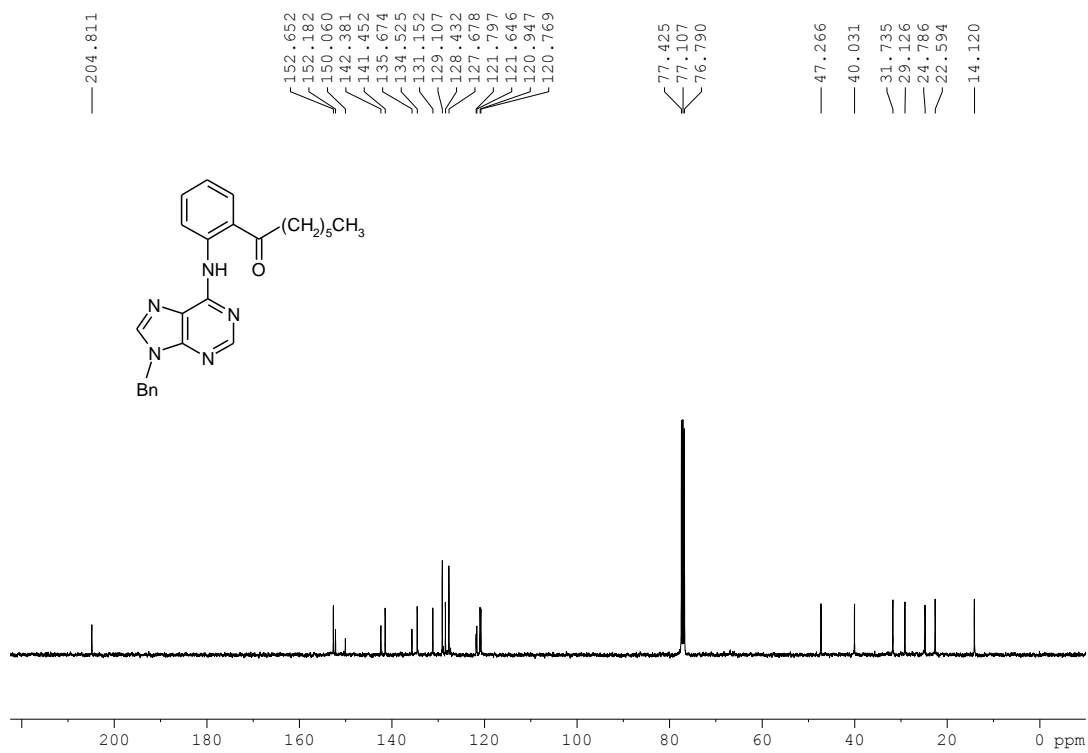


Figure S3. ^{13}C NMR spectrum of compound **2a**



Figure S4. ^1H NMR spectrum of compound **2b**

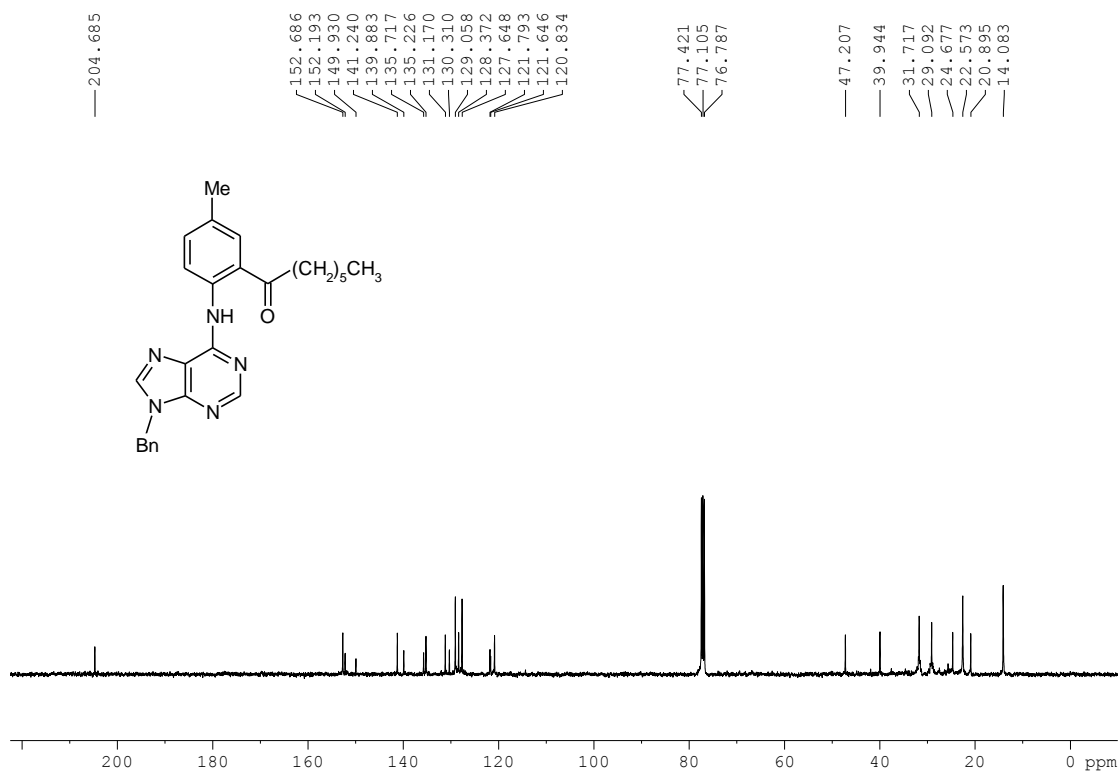


Figure S5. ^{13}C NMR spectrum of compound **2b**

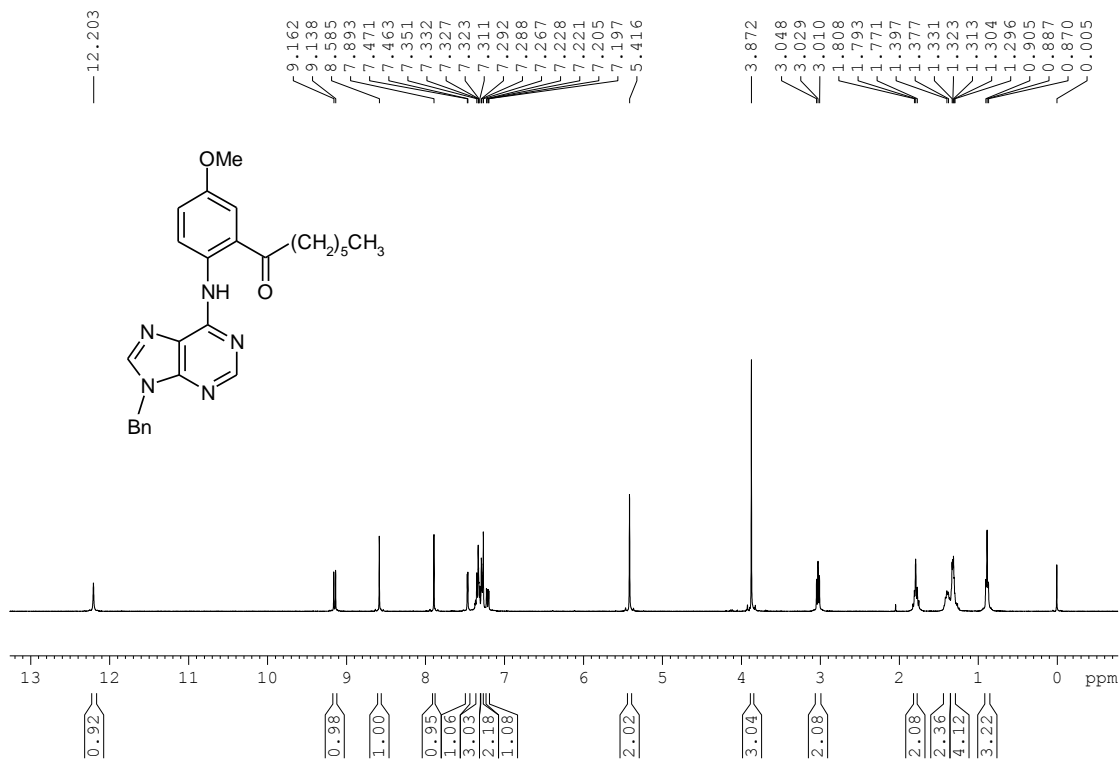


Figure S6. ¹H NMR spectrum of compound 2c

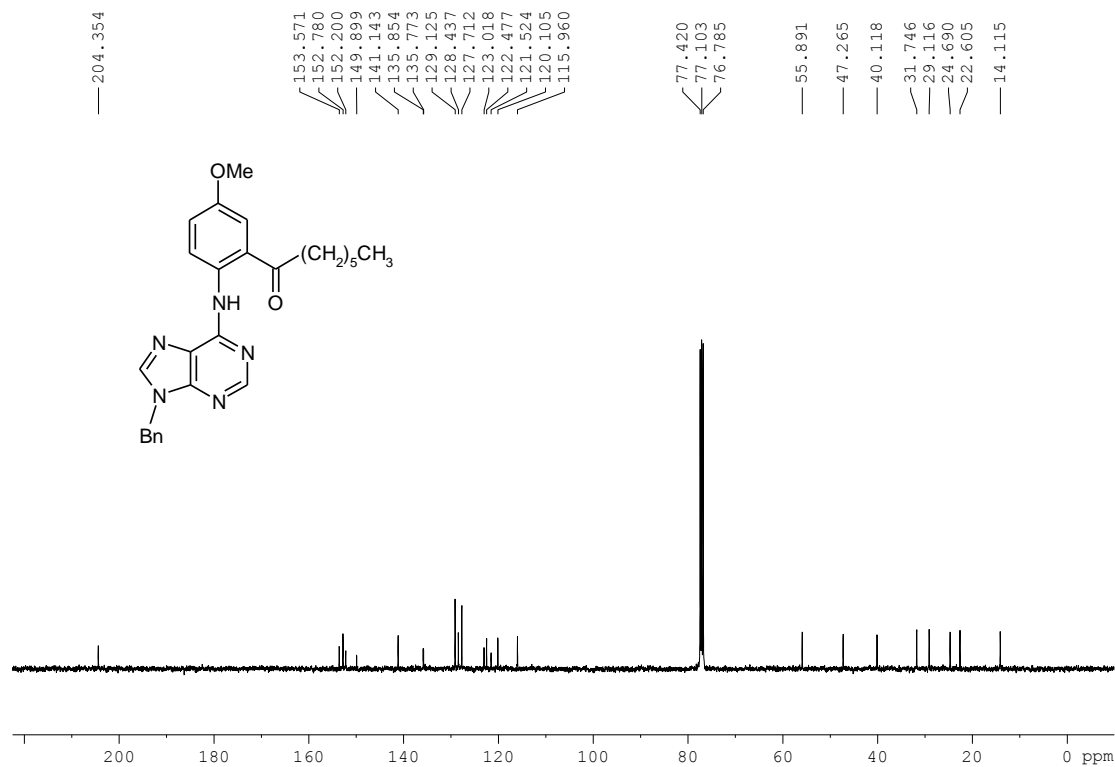


Figure S7. ¹³C NMR spectrum of compound 2c

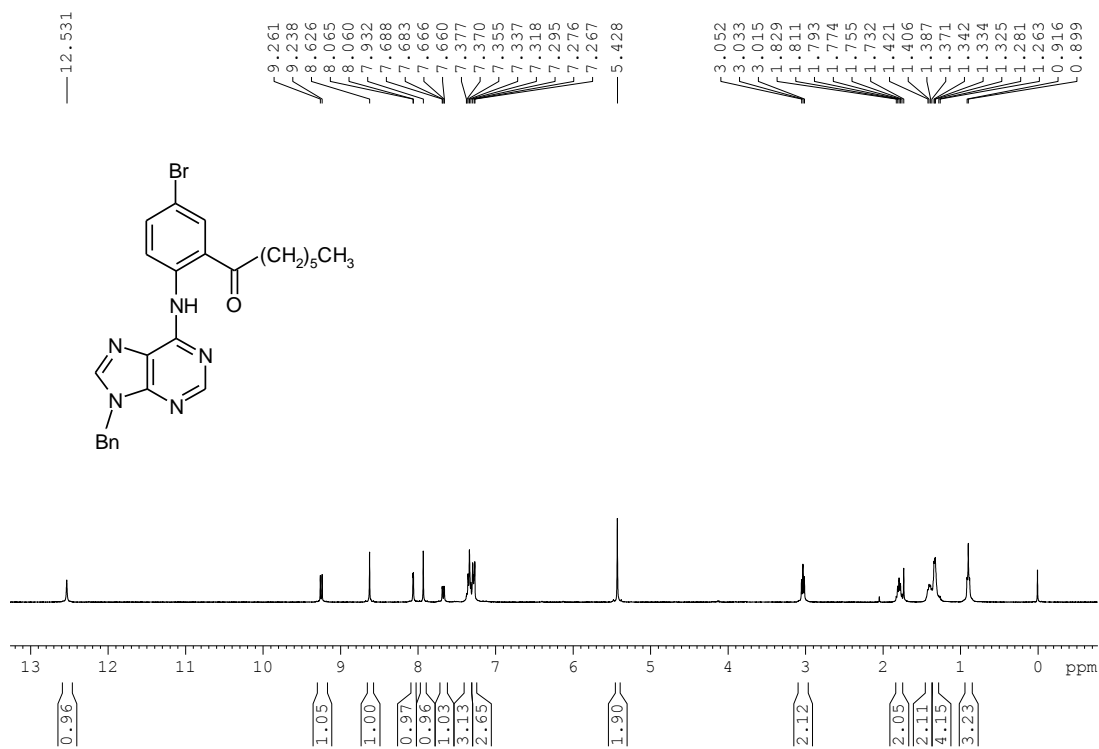


Figure S8. ¹H NMR spectrum of compound 2d

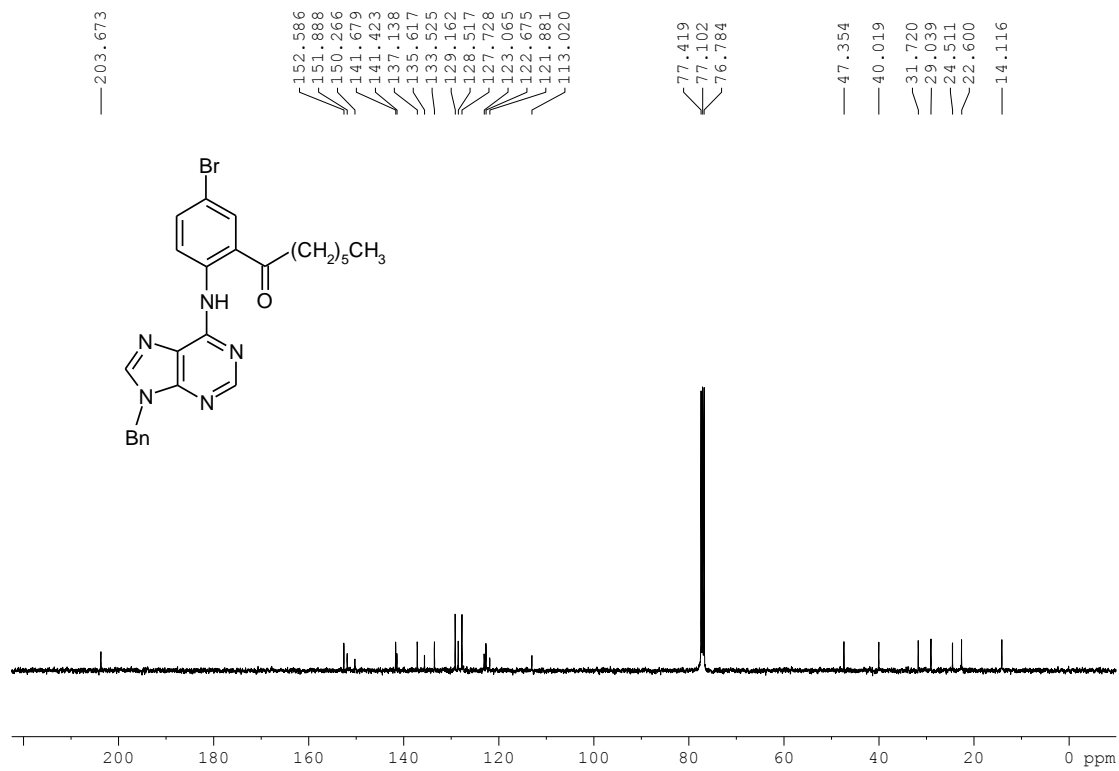


Figure S9. ¹³C NMR spectrum of compound 2d



Figure S10. ^1H NMR spectrum of compound **2e**

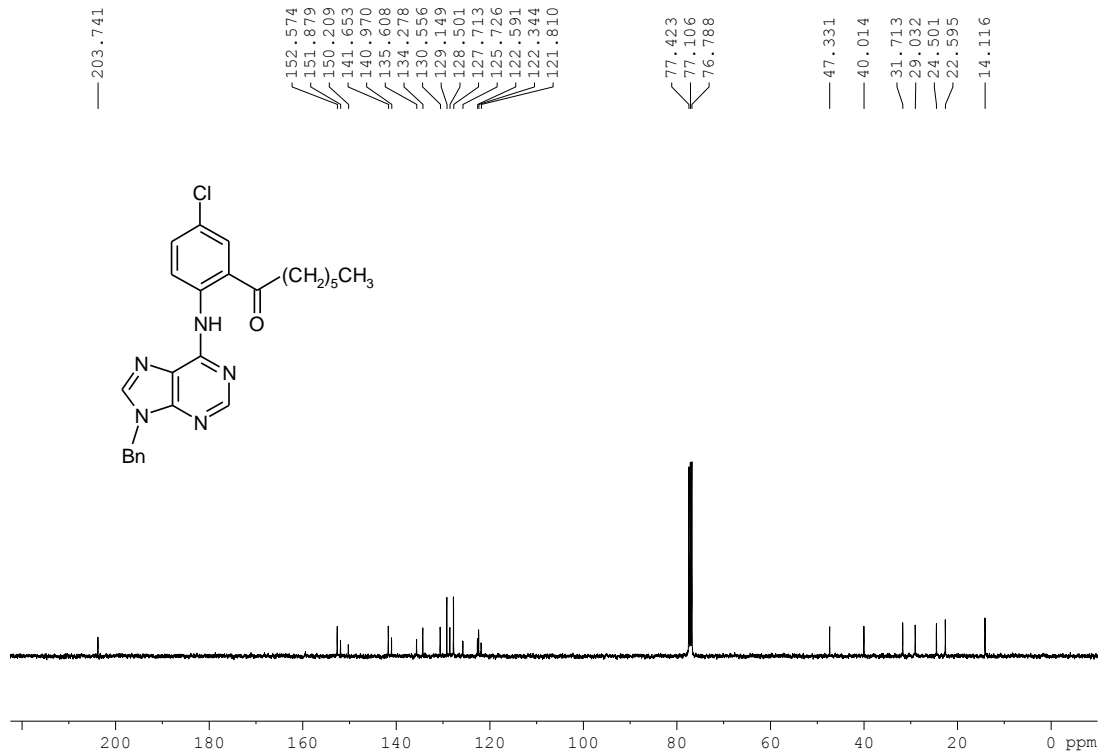


Figure S11. ^{13}C NMR spectrum of compound **2e**

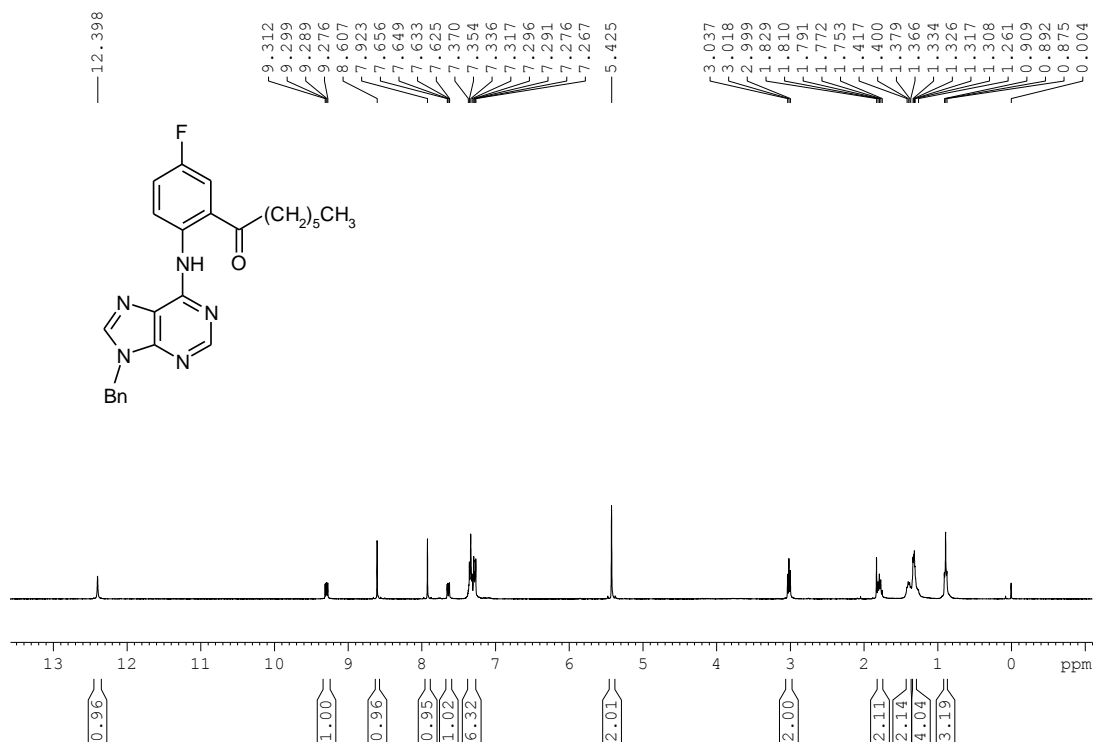


Figure S12. ¹H NMR spectrum of compound **2f**

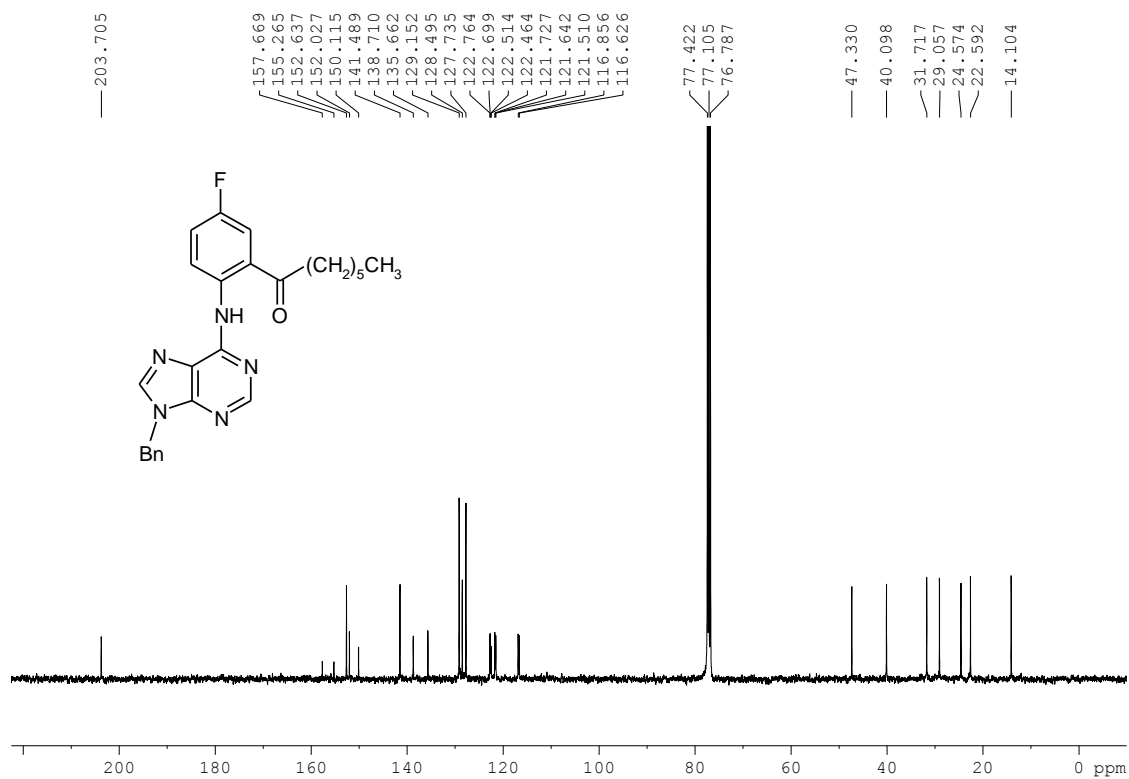


Figure S13. ¹³C NMR spectrum of compound **2f**

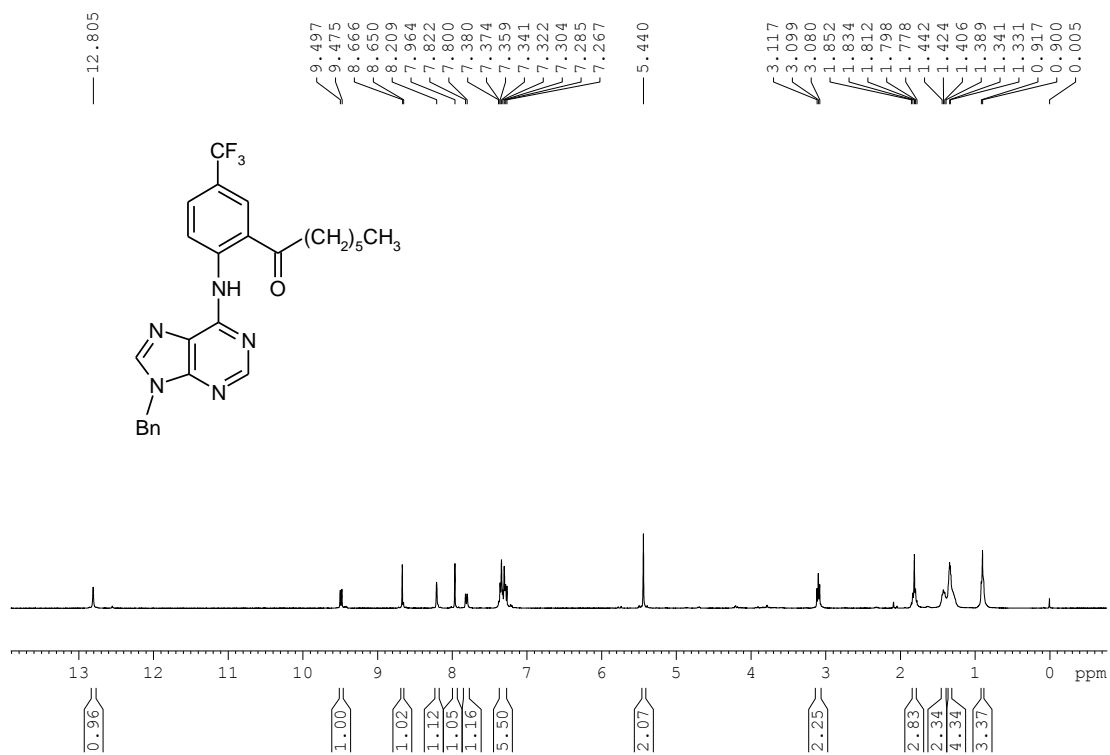


Figure S14. ¹H NMR spectrum of compound **2g**

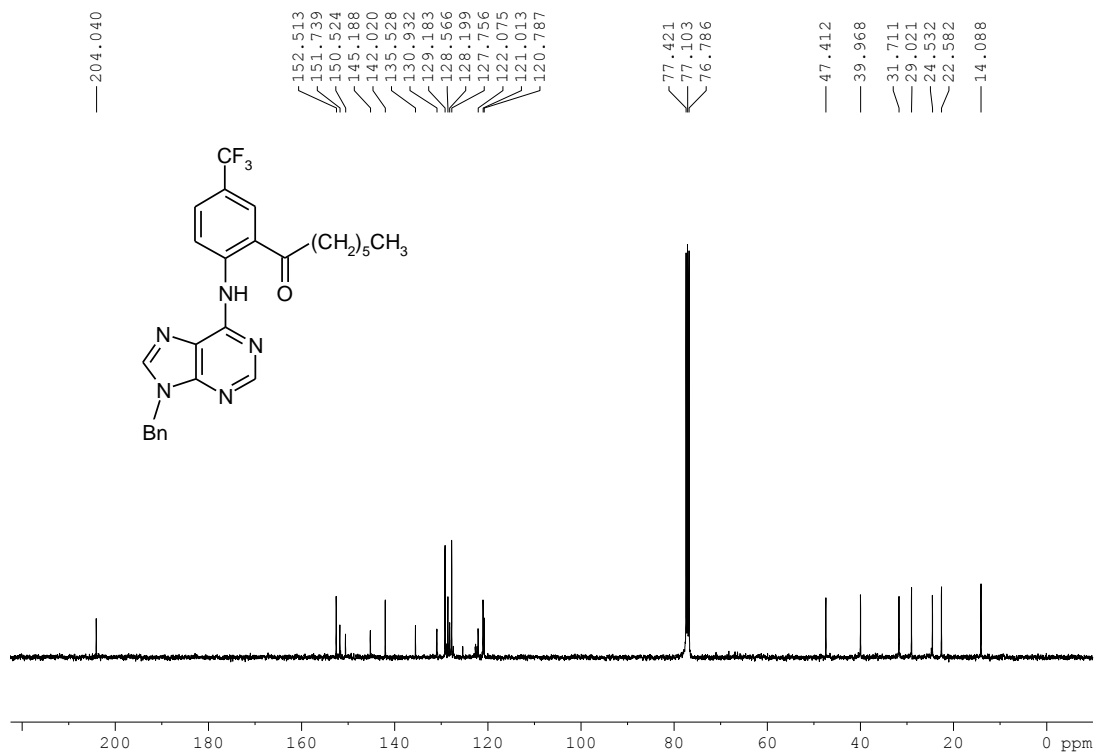


Figure S15. ¹³C NMR spectrum of compound **2g**

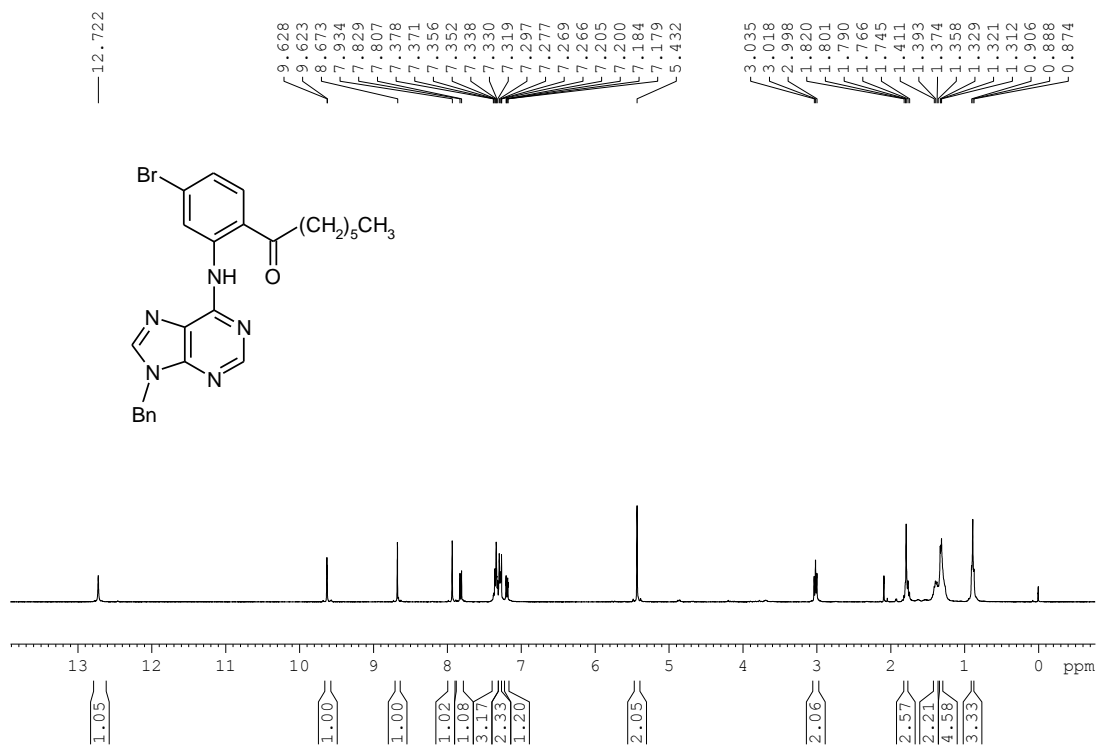


Figure S16. ^1H NMR spectrum of compound **2h**

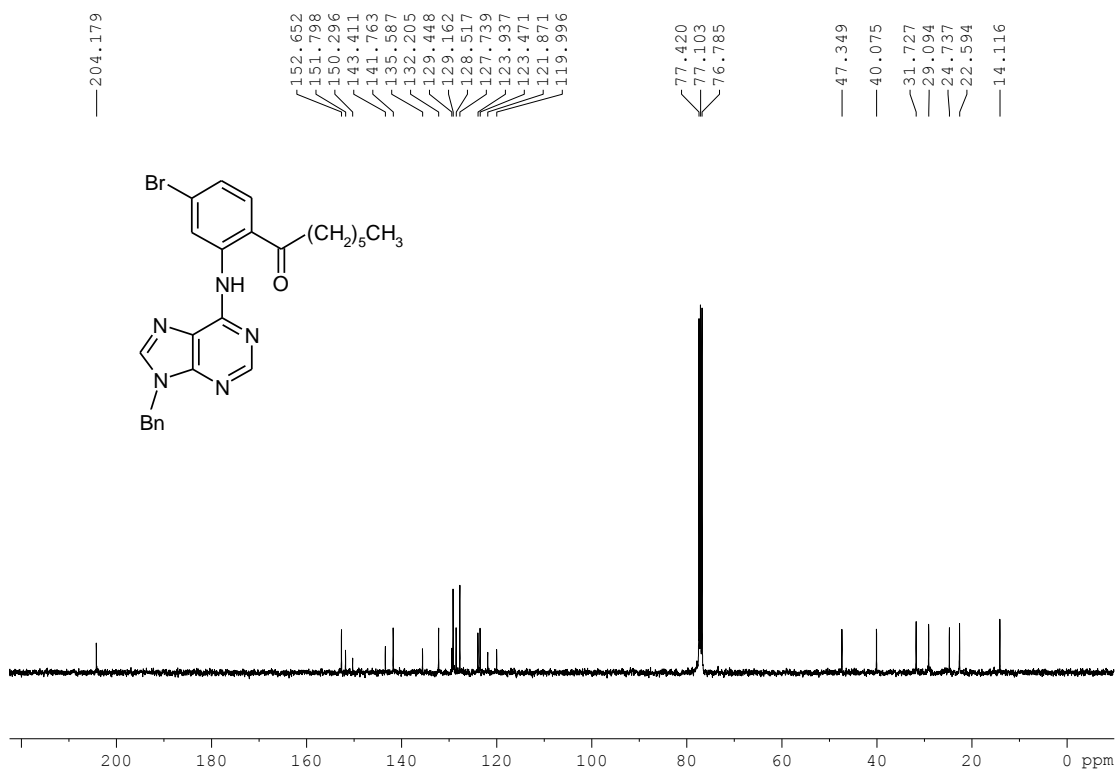


Figure S17. ^{13}C NMR spectrum of compound **2h**

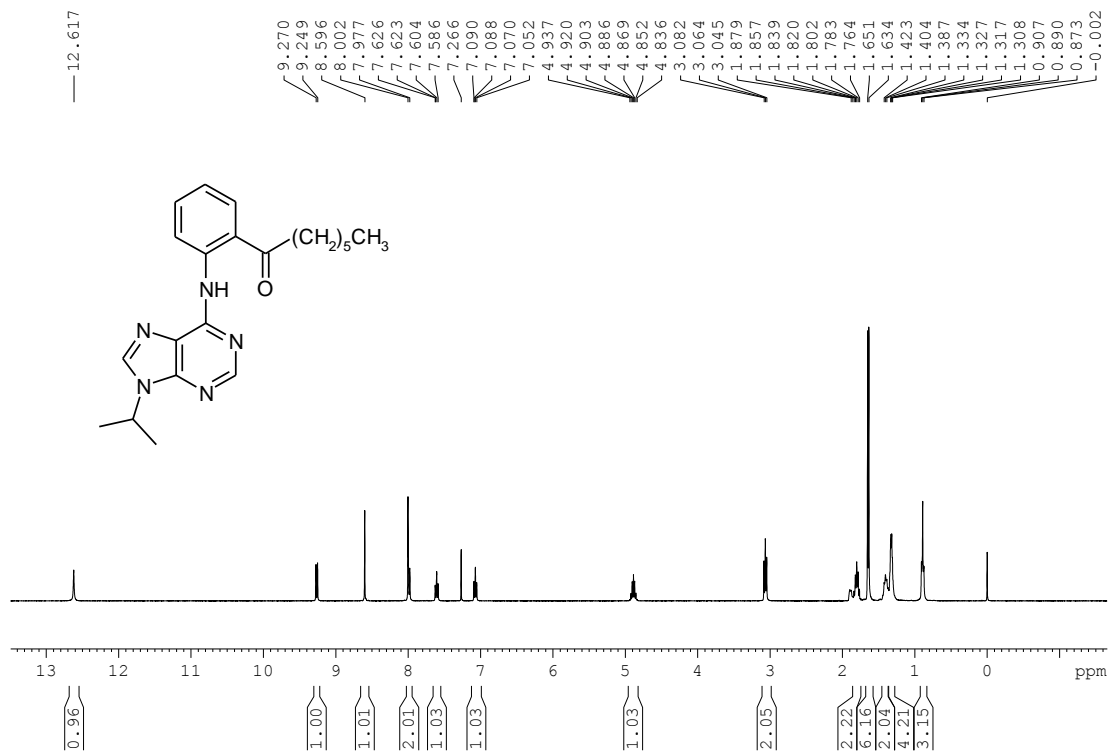


Figure S18. ¹H NMR spectrum of compound 2i

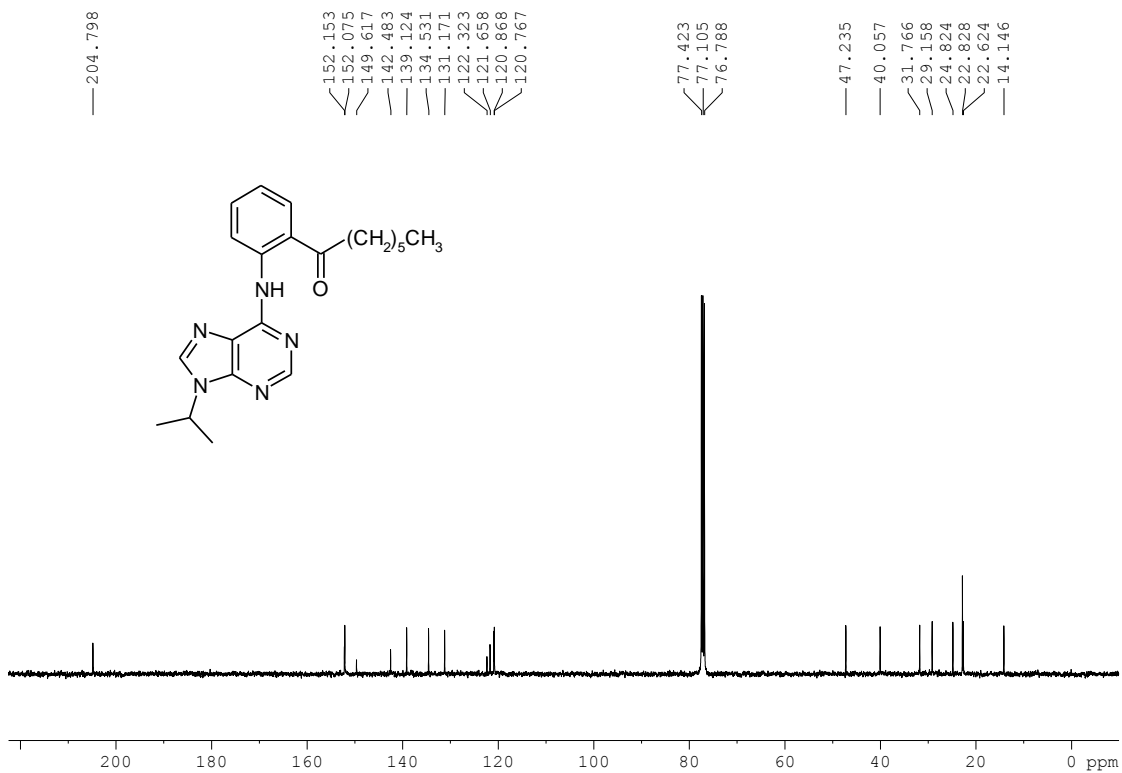


Figure S19. ¹³C NMR spectrum of compound 2i



Figure S20. ¹H NMR spectrum of compound 2j

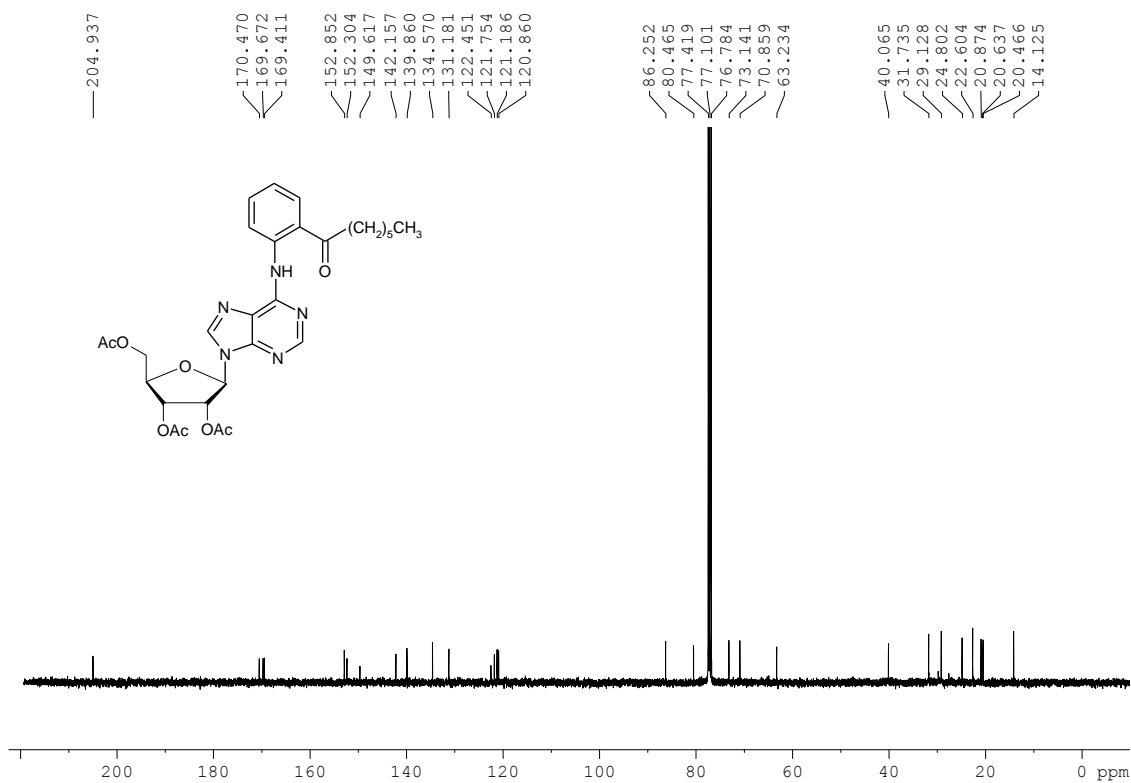


Figure S21. ¹³C NMR spectrum of compound 2j

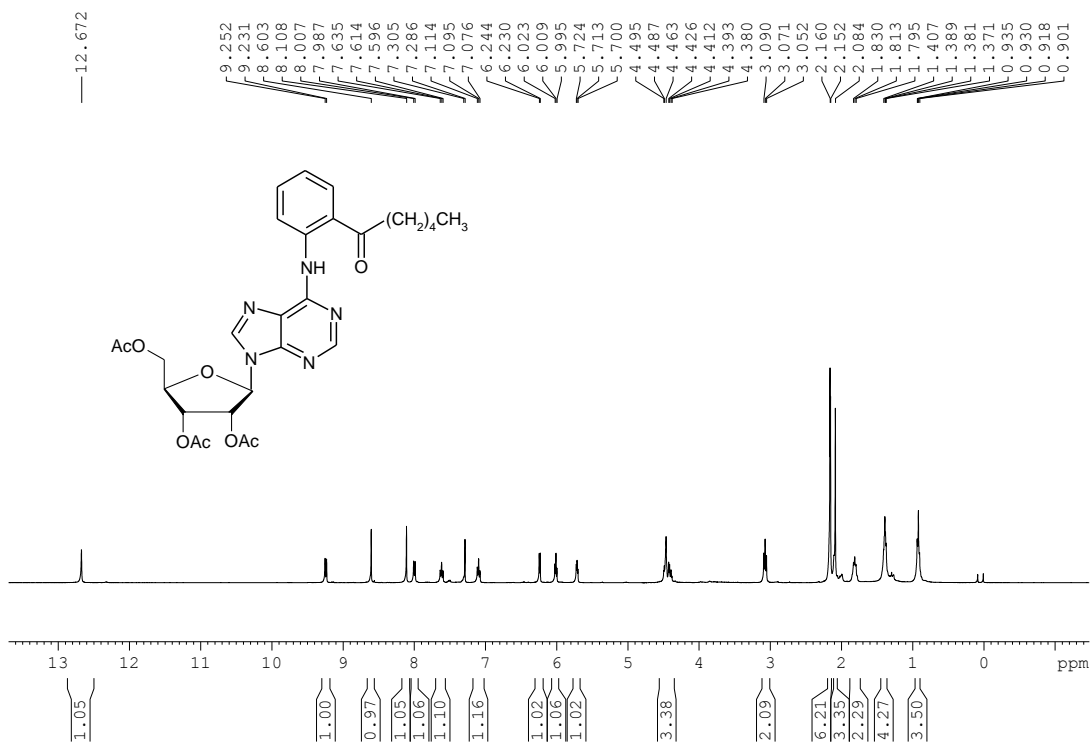


Figure S22. ¹H NMR spectrum of compound 2k

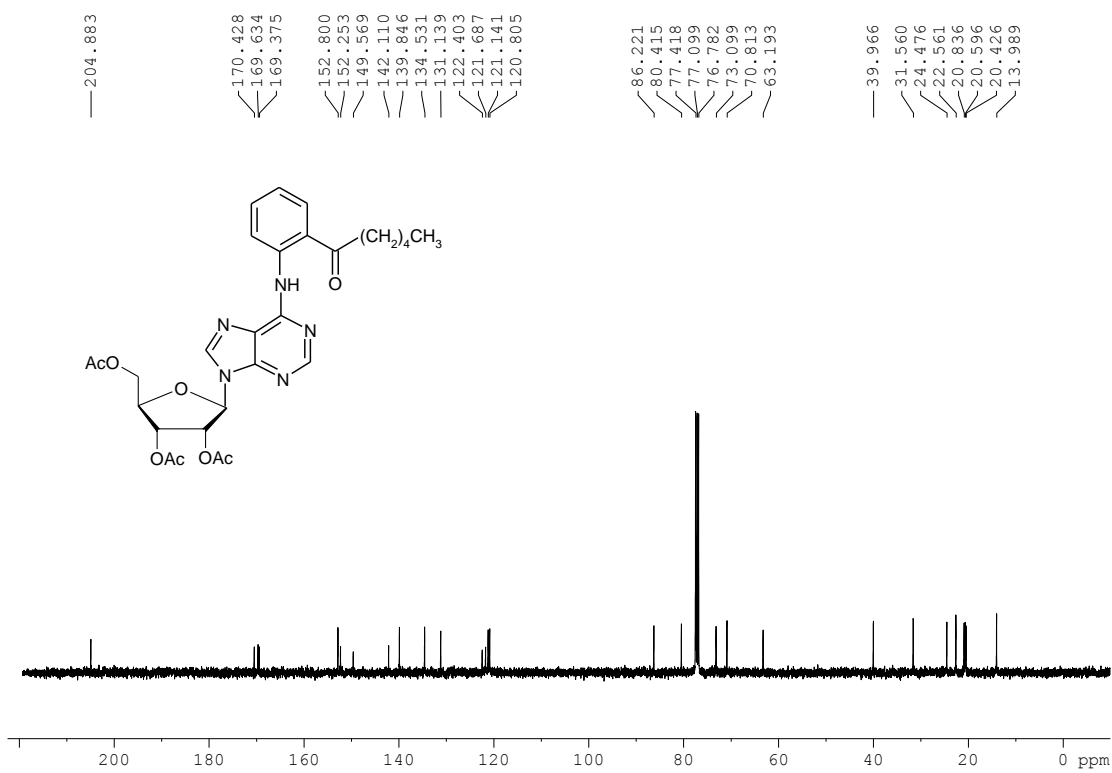


Figure S23. ¹³C NMR spectrum of compound 2k

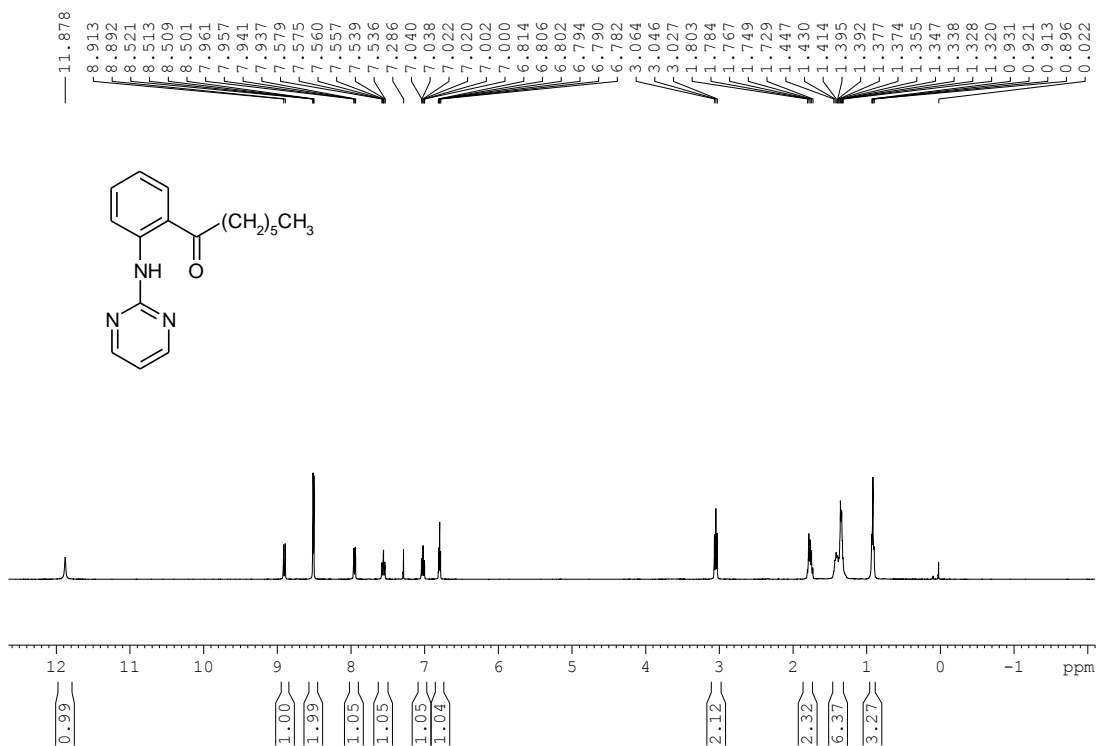


Figure S24. ¹H NMR spectrum of compound 21

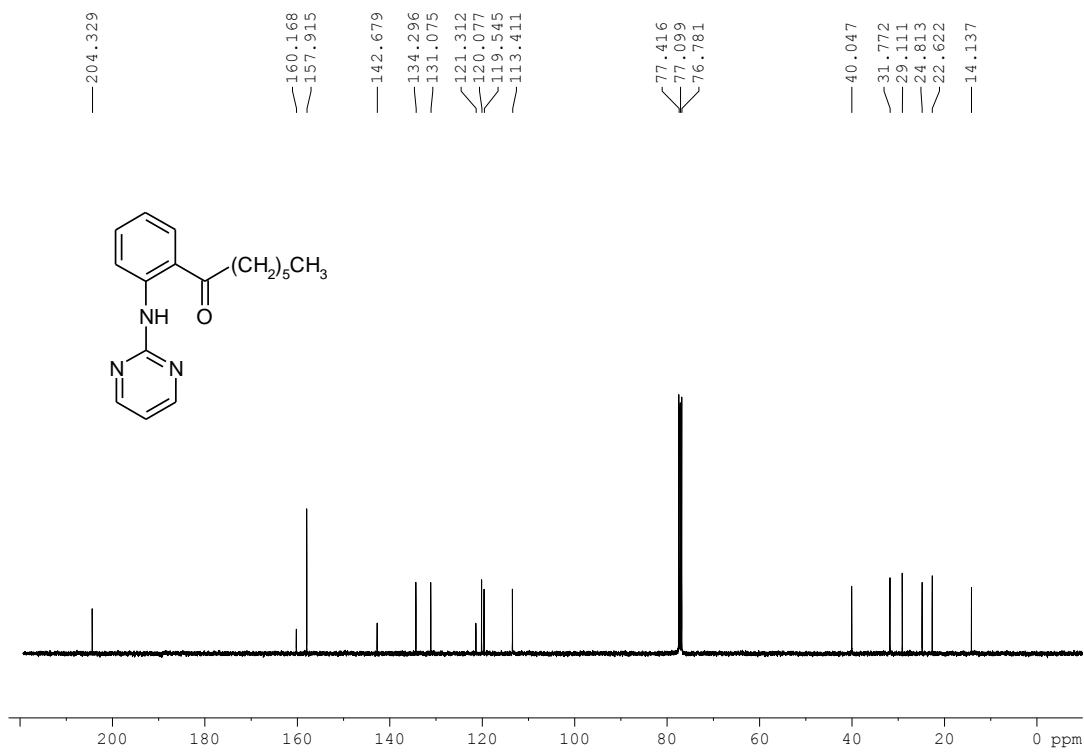


Figure S25. ¹³C NMR spectrum of compound 21



Figure S26. ^1H NMR spectrum of compound **2m**

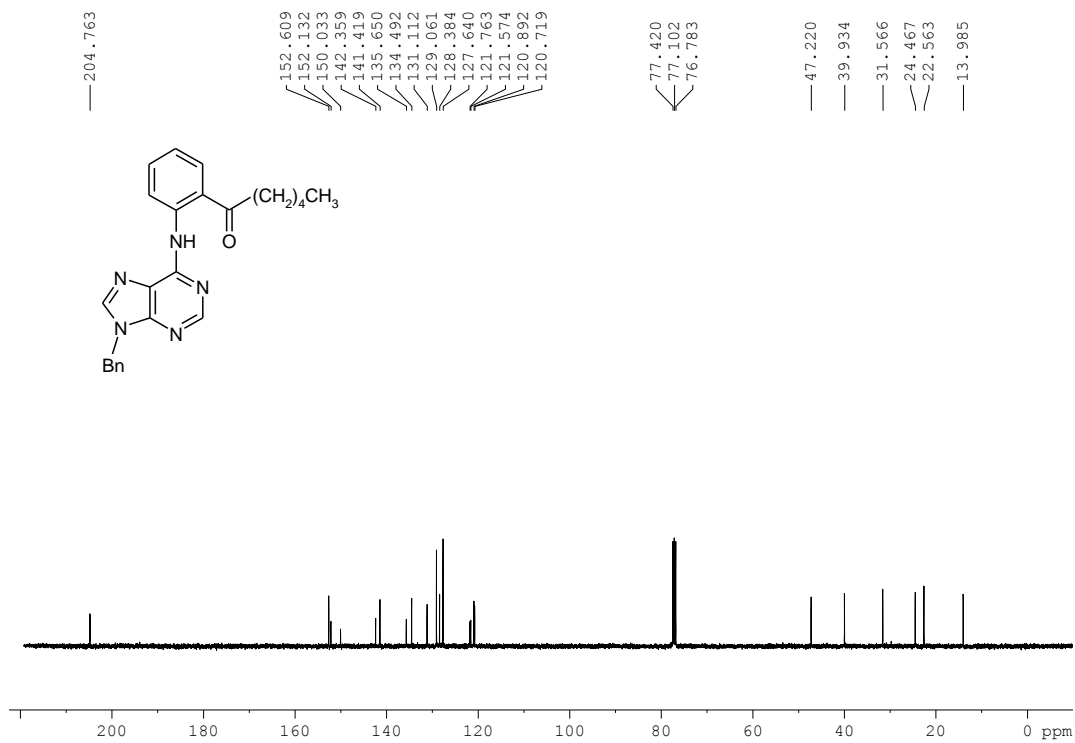


Figure S27. ^{13}C NMR spectrum of compound **2m**

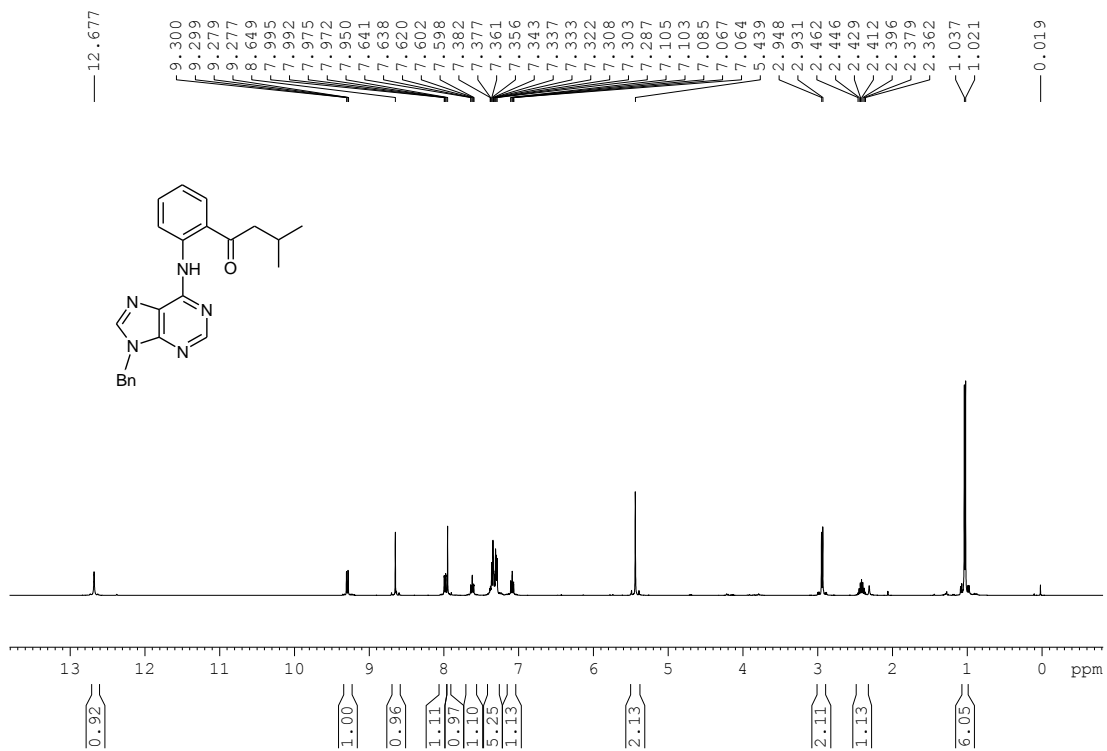


Figure S28. ^1H NMR spectrum of compound **2n**

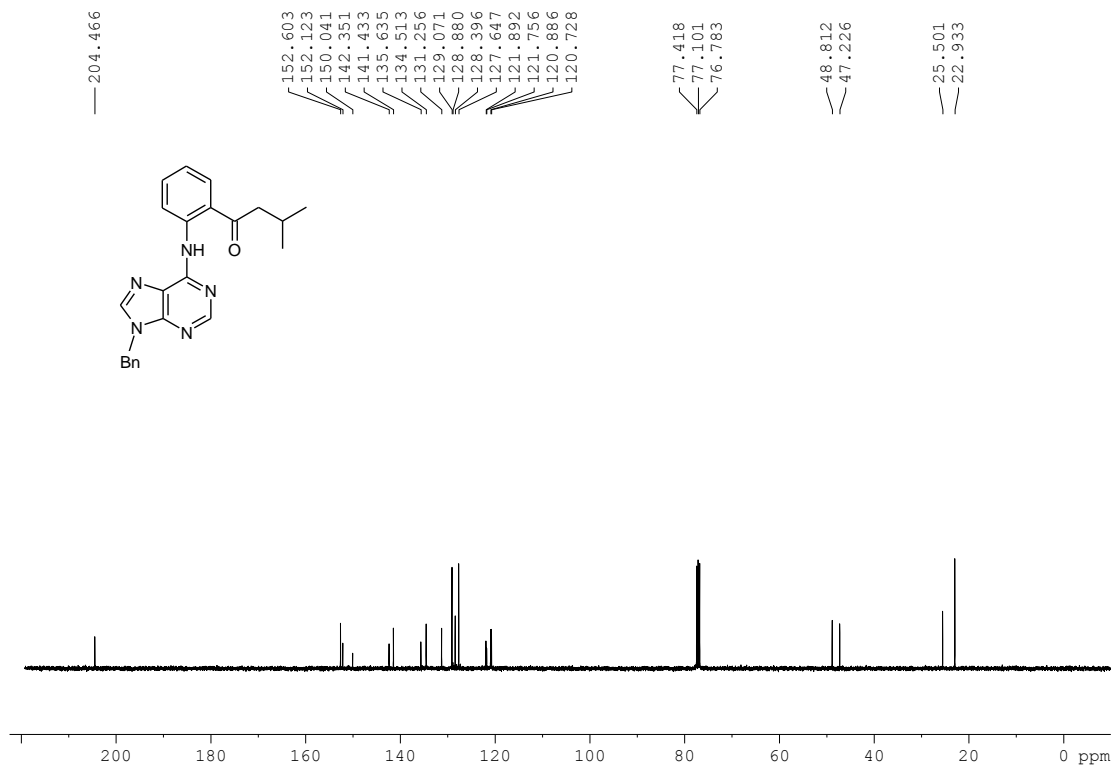


Figure S29. ^{13}C NMR spectrum of compound **2n**

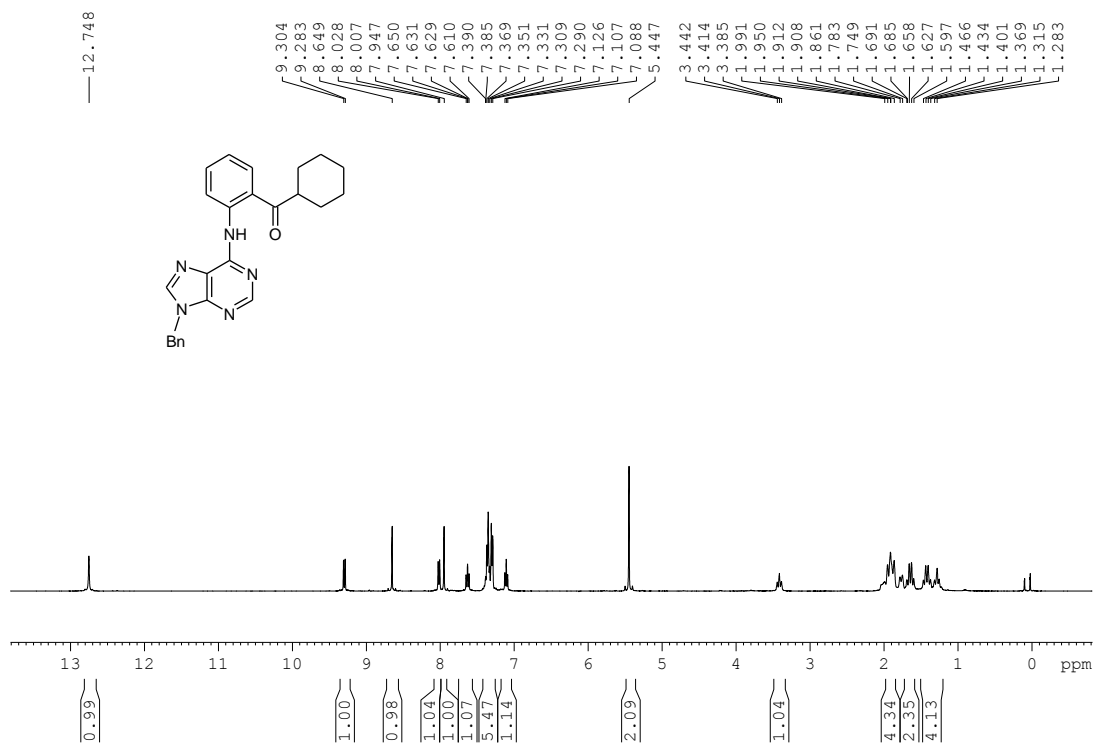


Figure S30. ¹H NMR spectrum of compound **2o**

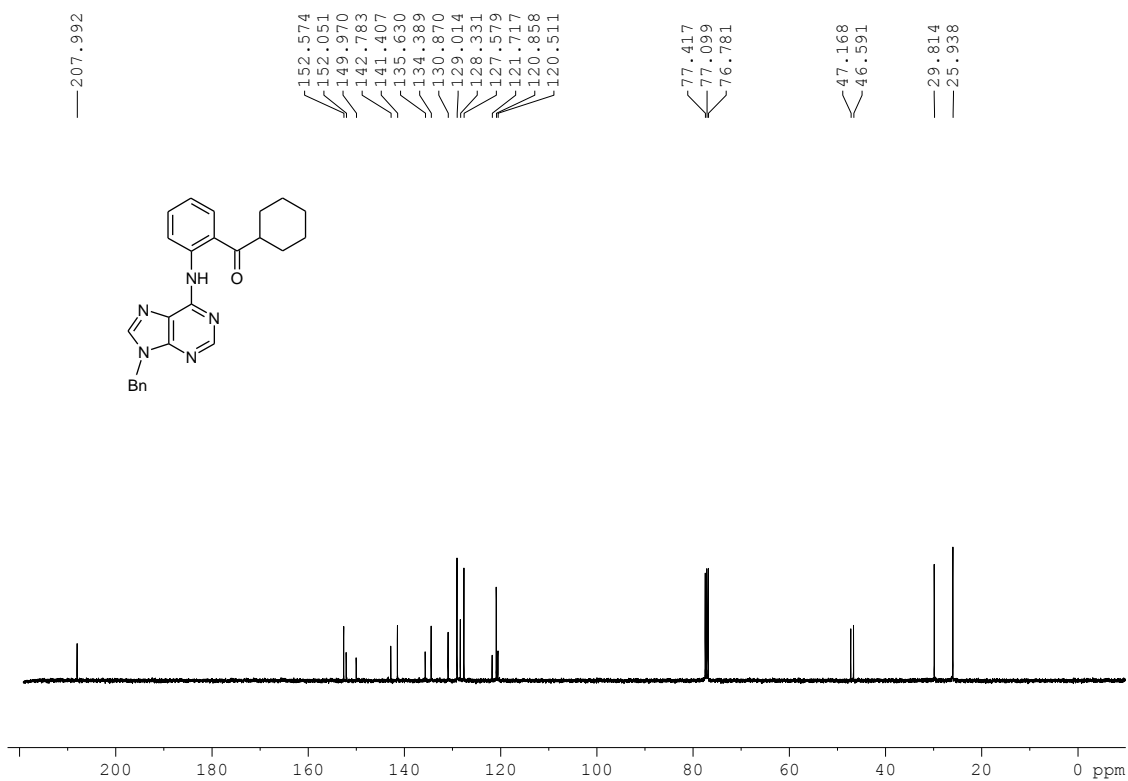


Figure S31. ¹³C NMR spectrum of compound **2o**



Figure S32. ¹H NMR spectrum of compound 2p

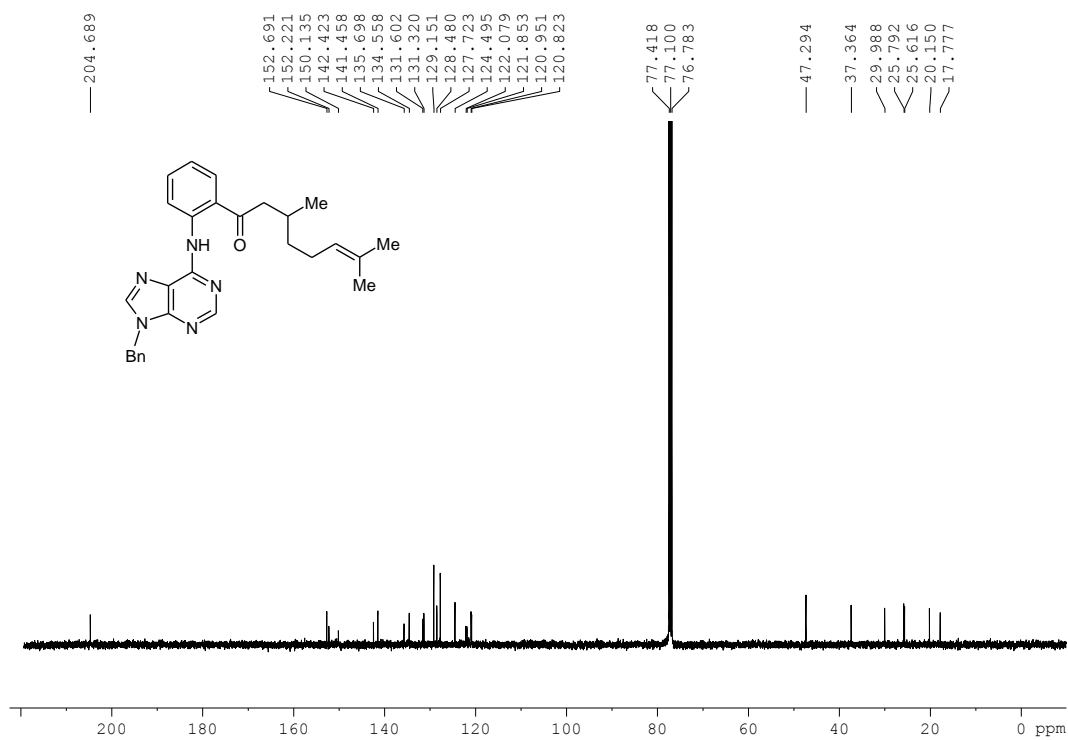


Figure S33. ¹³C NMR spectrum of compound 2p

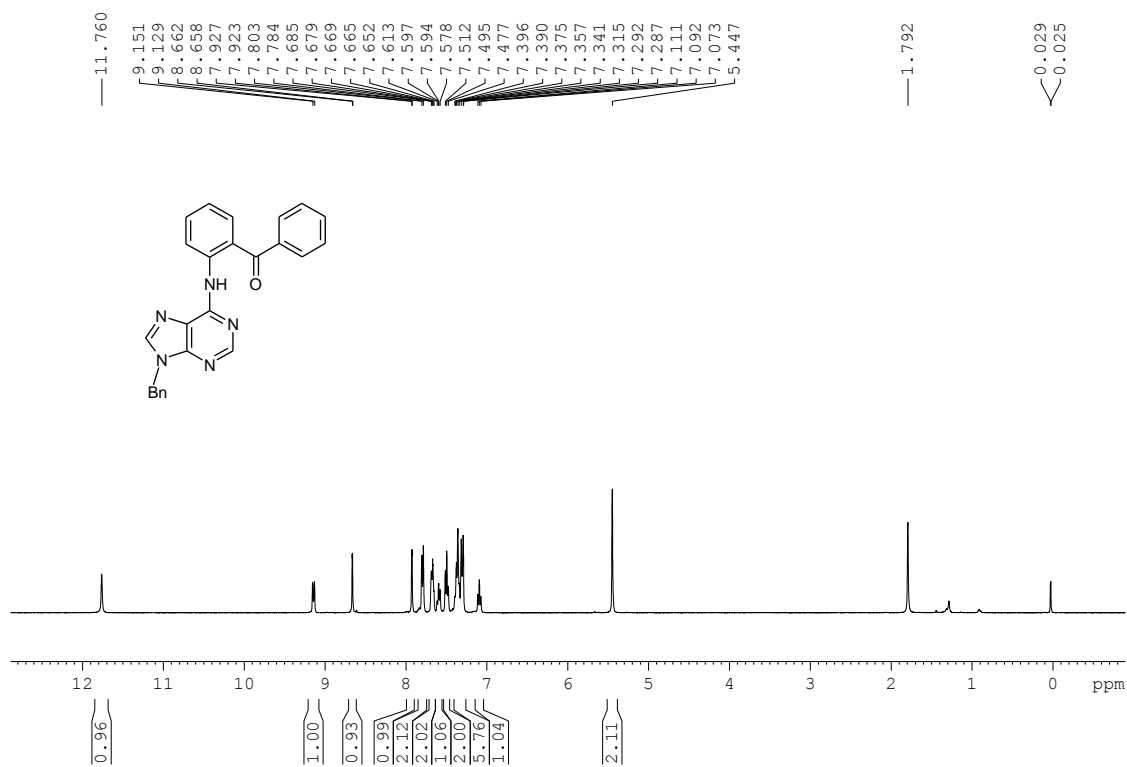


Figure S34. ^1H NMR spectrum of compound 3a

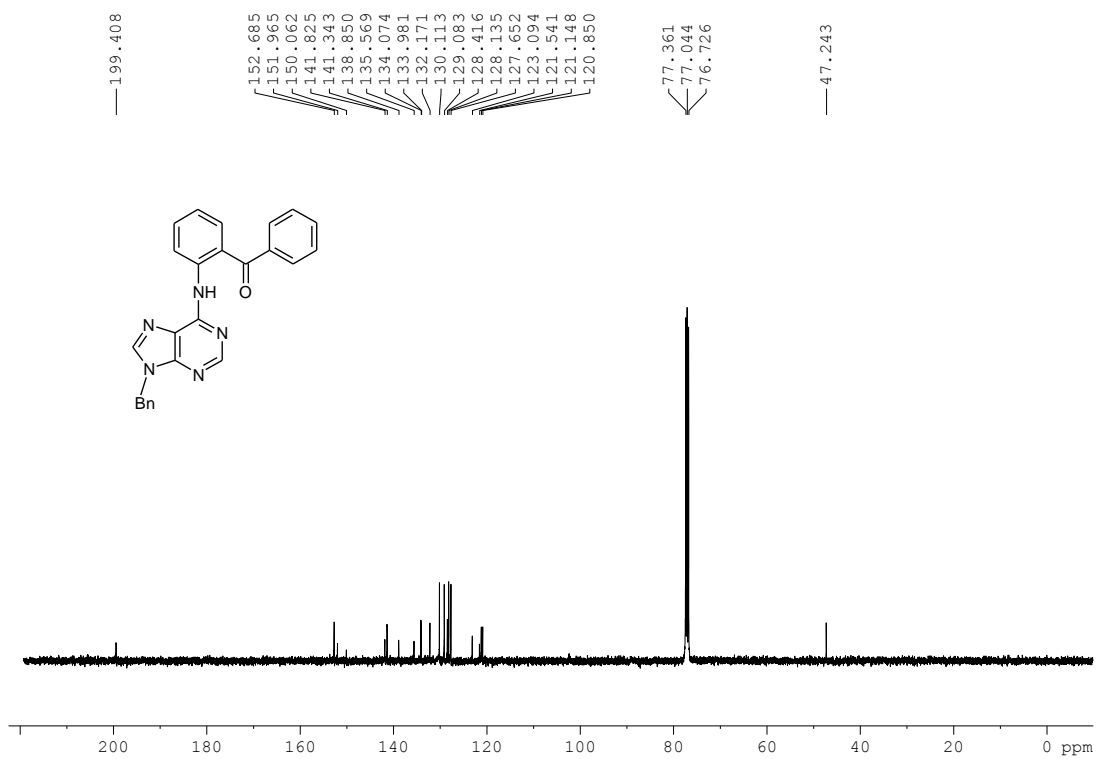


Figure S35. ^{13}C NMR spectrum of compound 3a

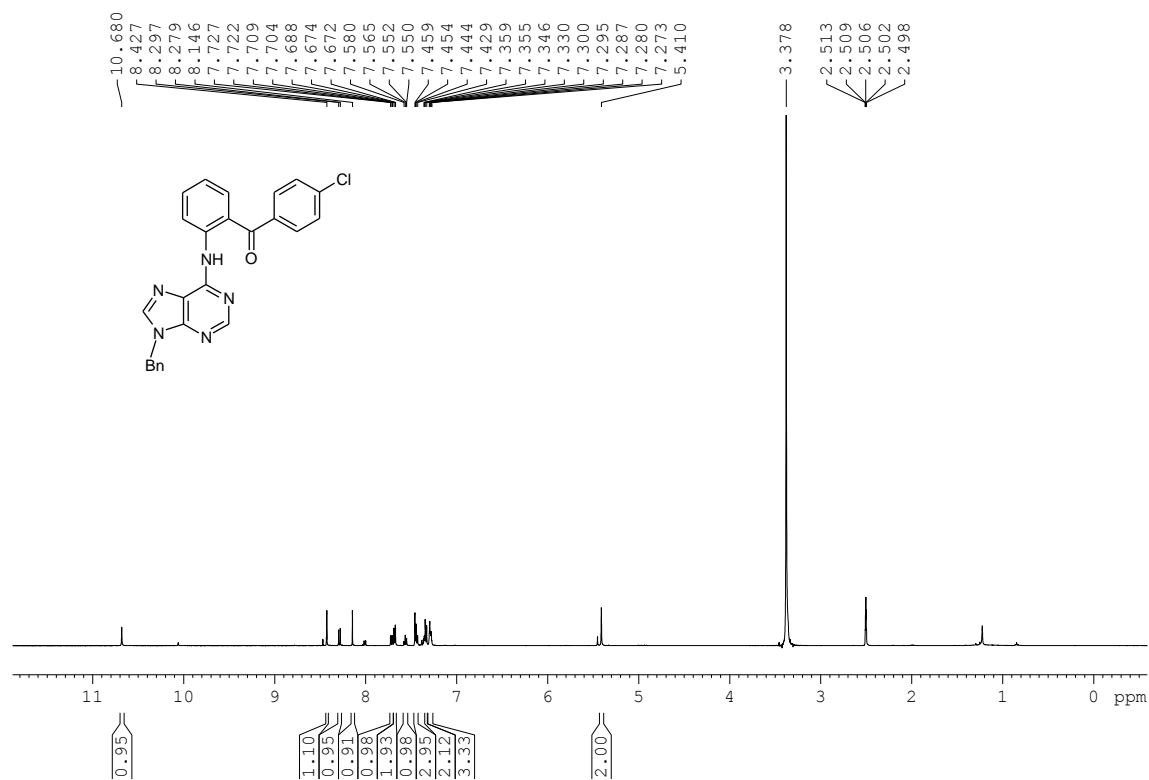


Figure S38. ¹H NMR spectrum of compound **3b**

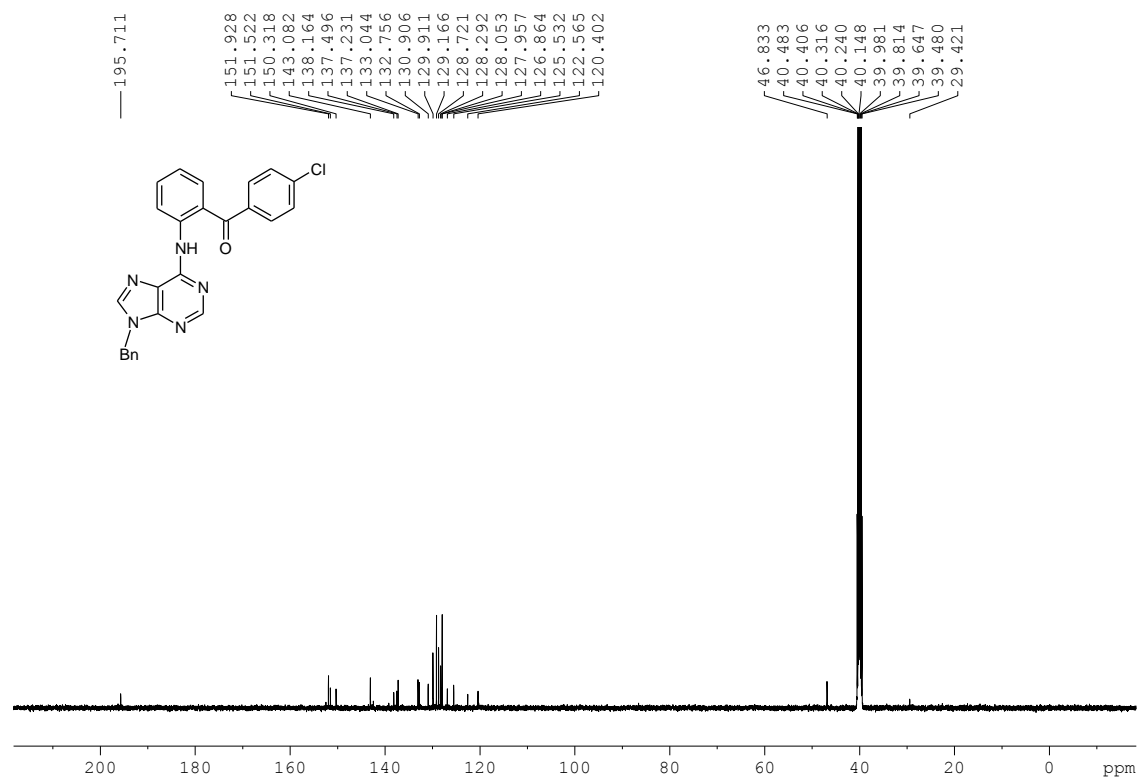


Figure S39. ¹³C NMR spectrum of compound **3b**

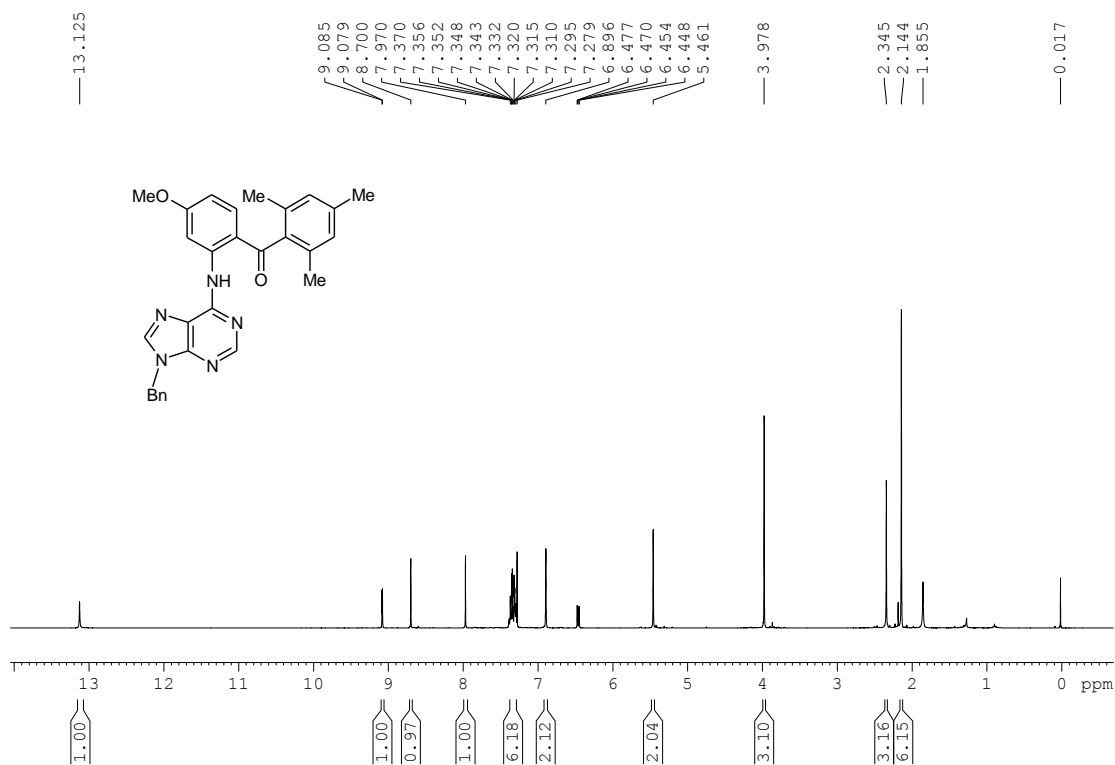


Figure S40. ¹H NMR spectrum of compound 3c

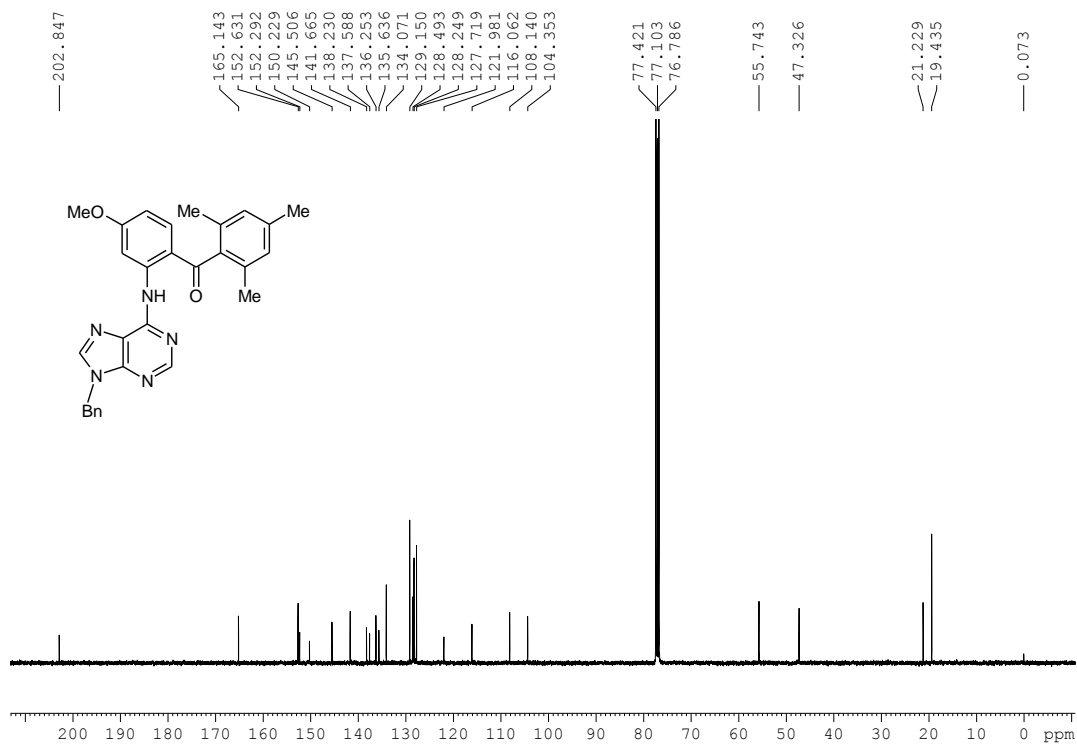


Figure S41. ¹³C NMR spectrum of compound 3c

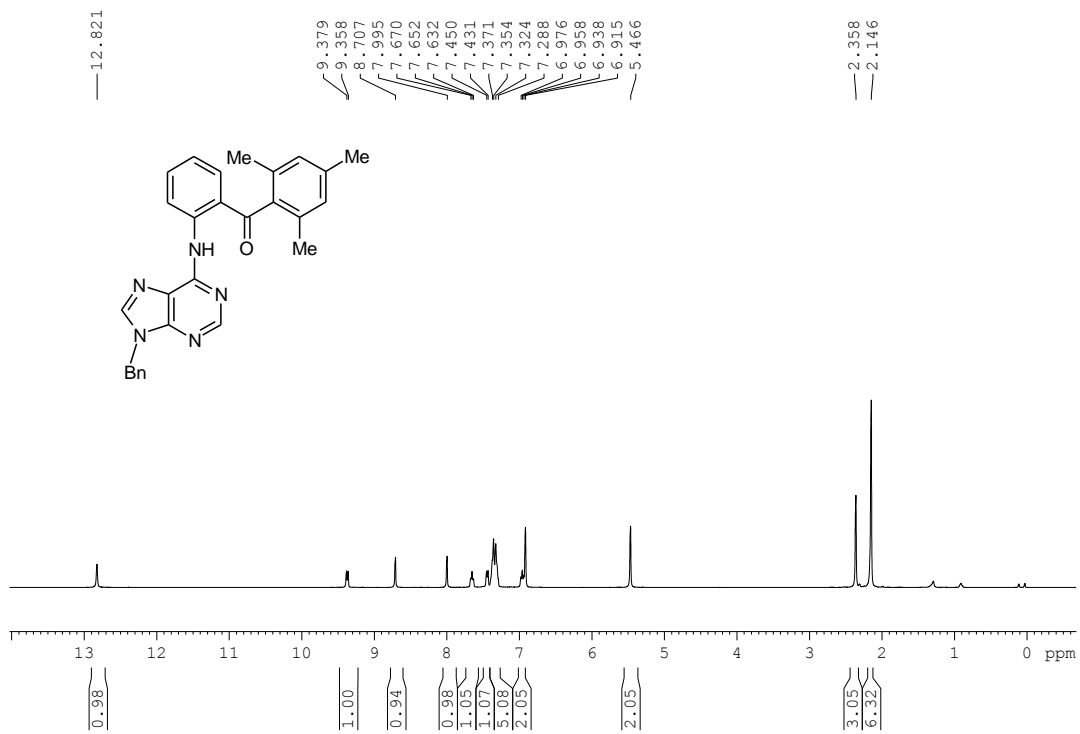


Figure S36. $^1\text{H NMR}$ spectrum of compound 3d

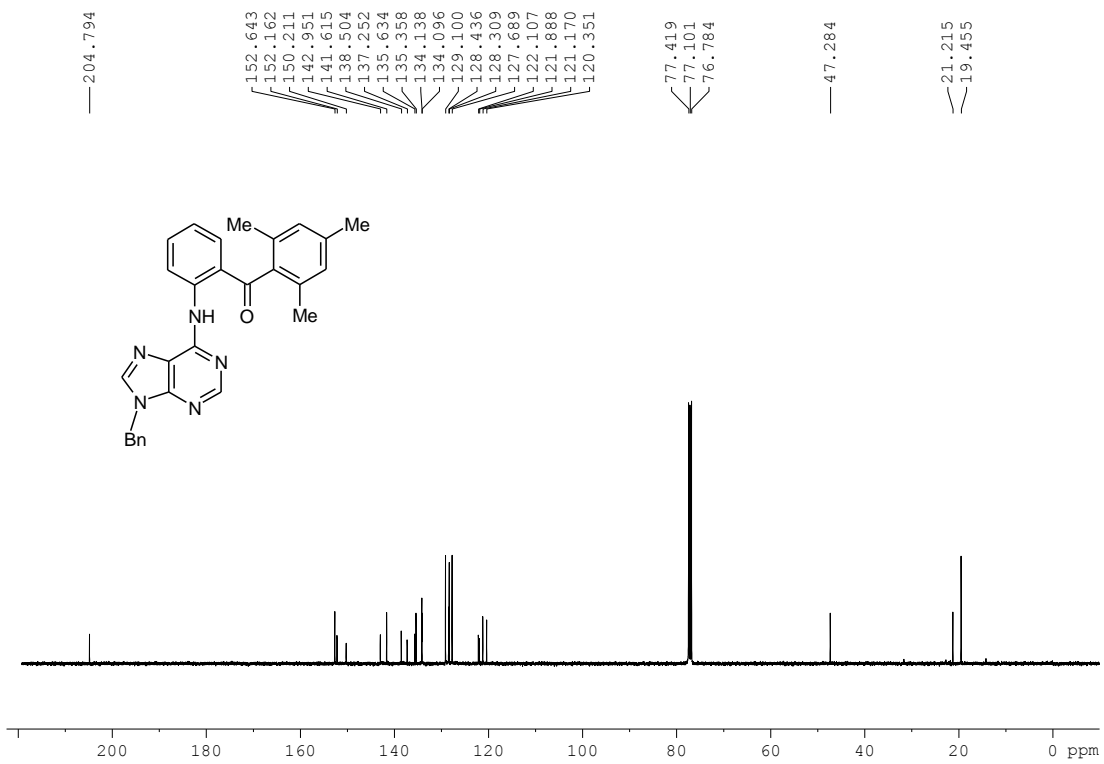


Figure S37. $^{13}\text{C NMR}$ spectrum of compound 3d

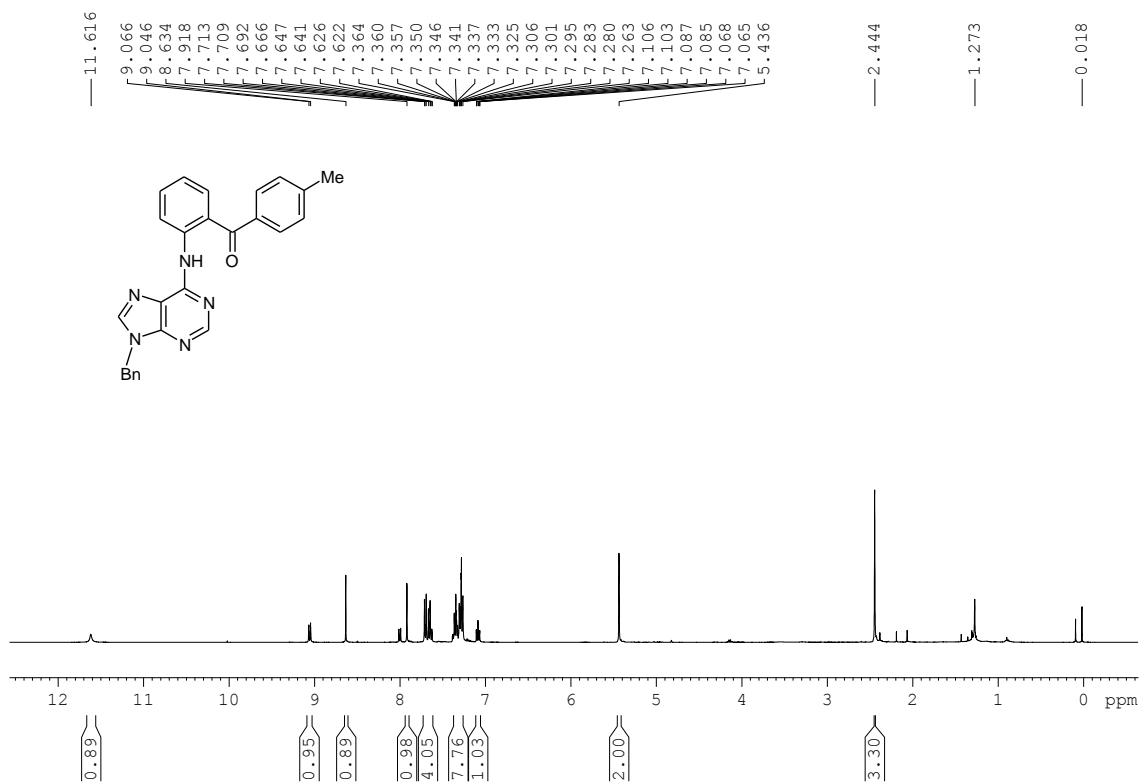


Figure S42. $^1\text{H NMR}$ spectrum of compound **3e**

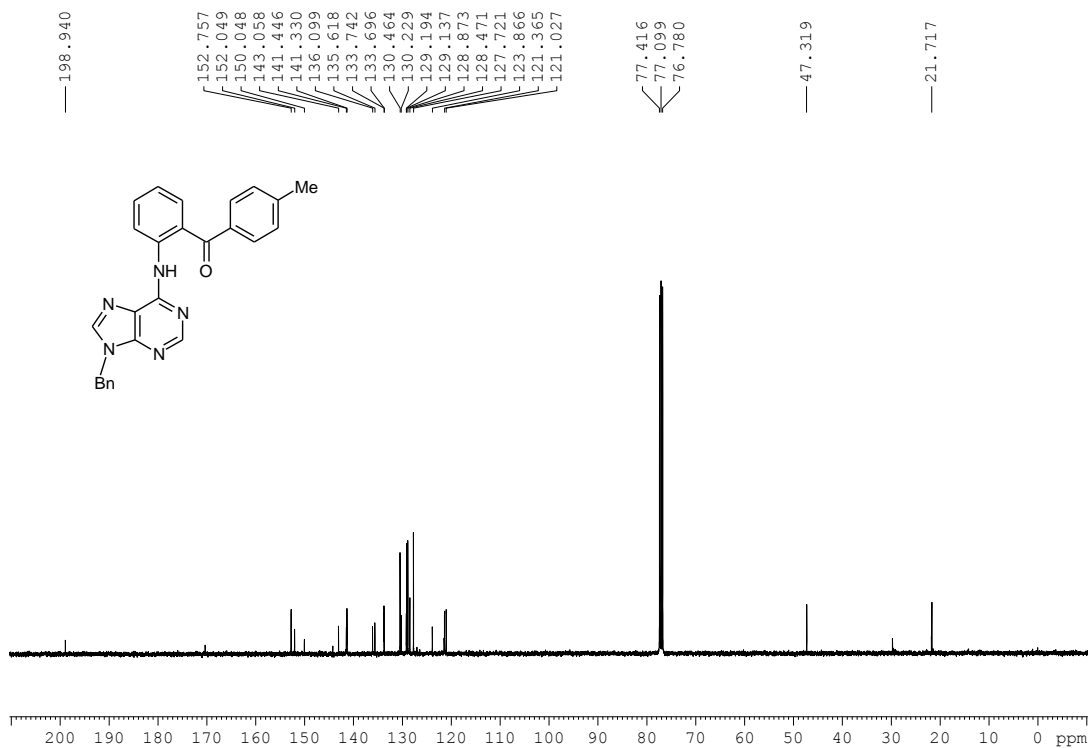


Figure S43. $^{13}\text{C NMR}$ spectrum of compound **3e**

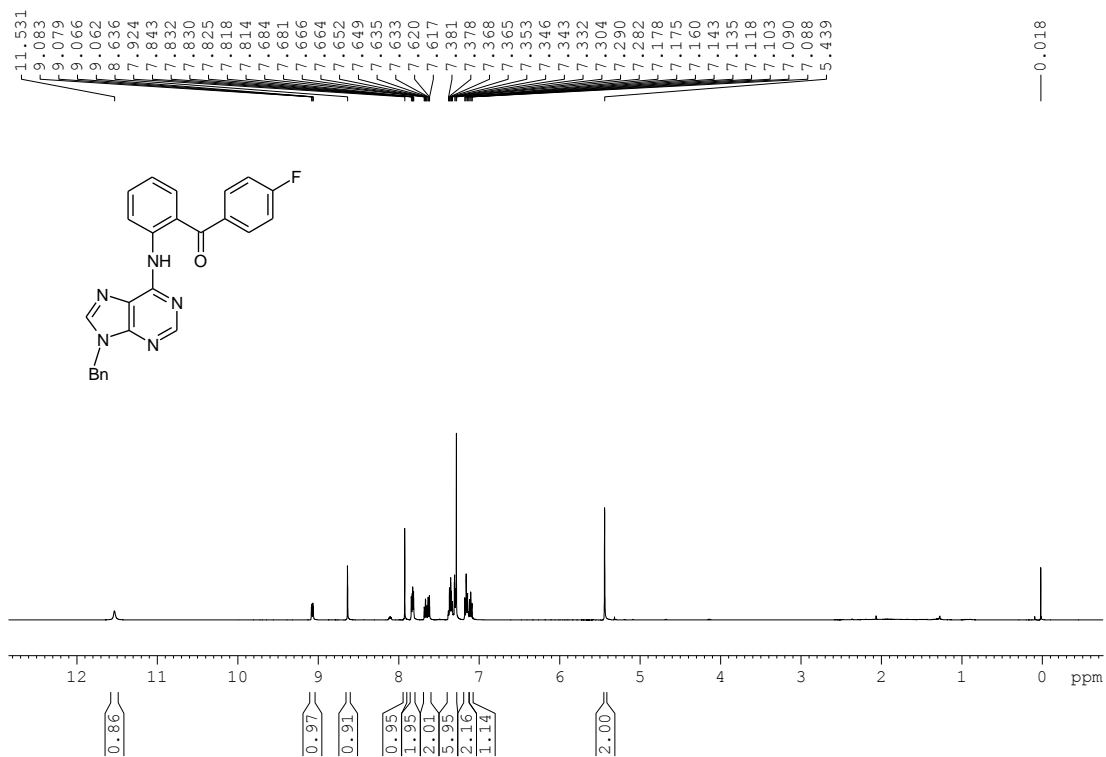


Figure S44. ¹H NMR spectrum of compound 3f

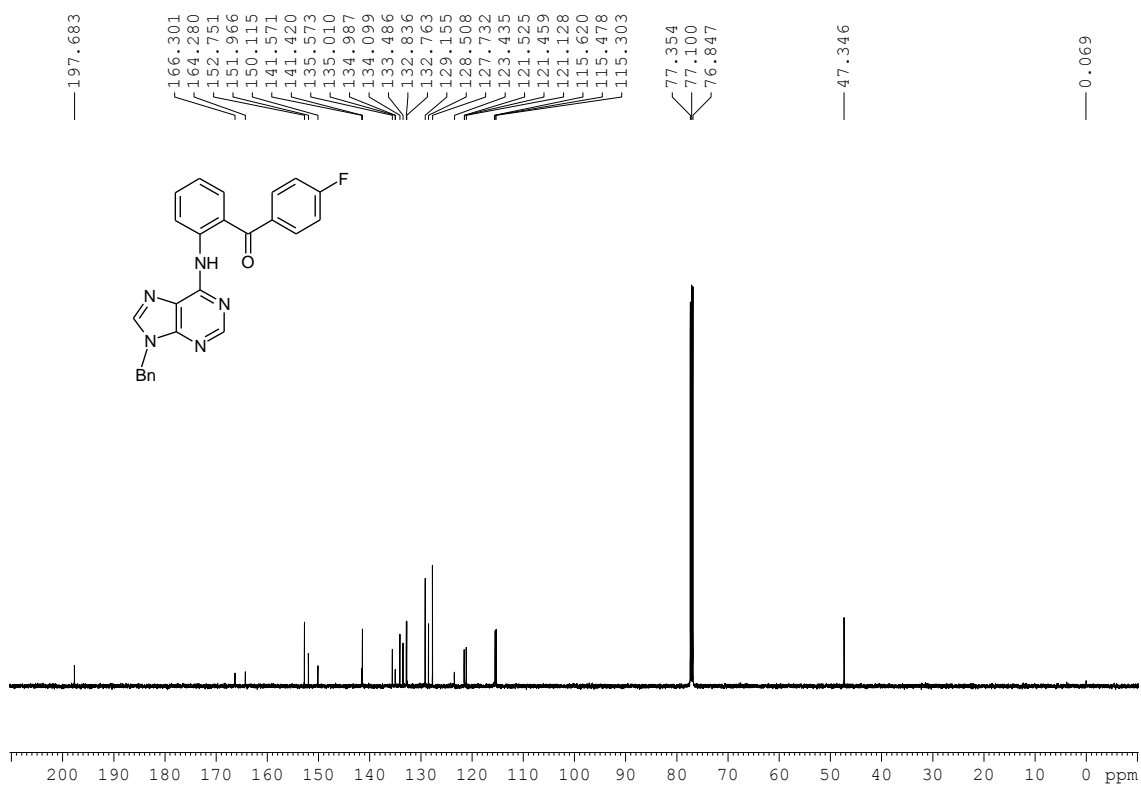


Figure S45. ¹³C NMR spectrum of compound 3f

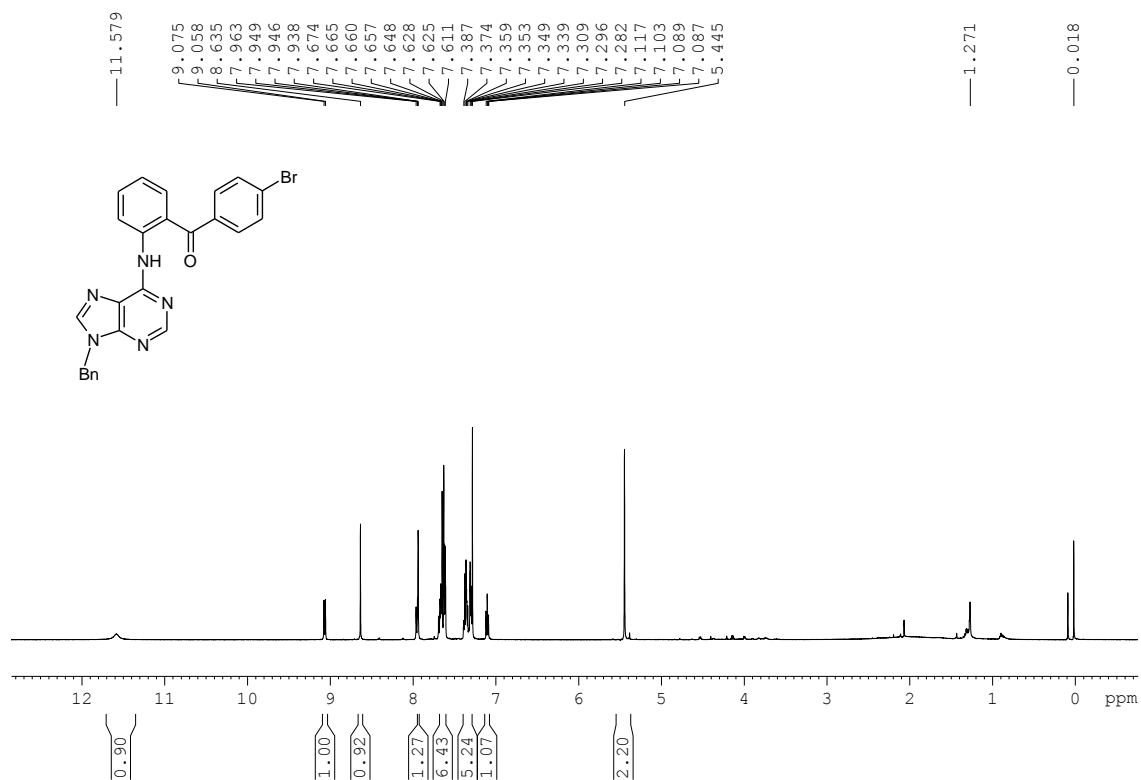


Figure S46. $^1\text{H NMR}$ spectrum of compound 3g

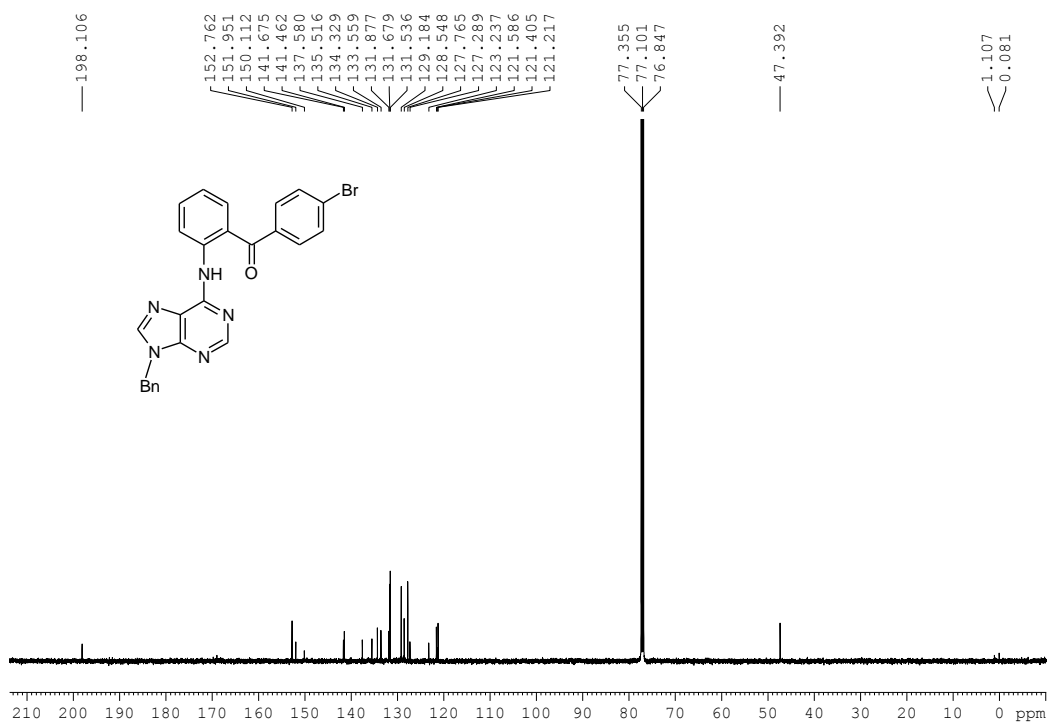


Figure S47. $^{13}\text{C NMR}$ spectrum of compound 3g

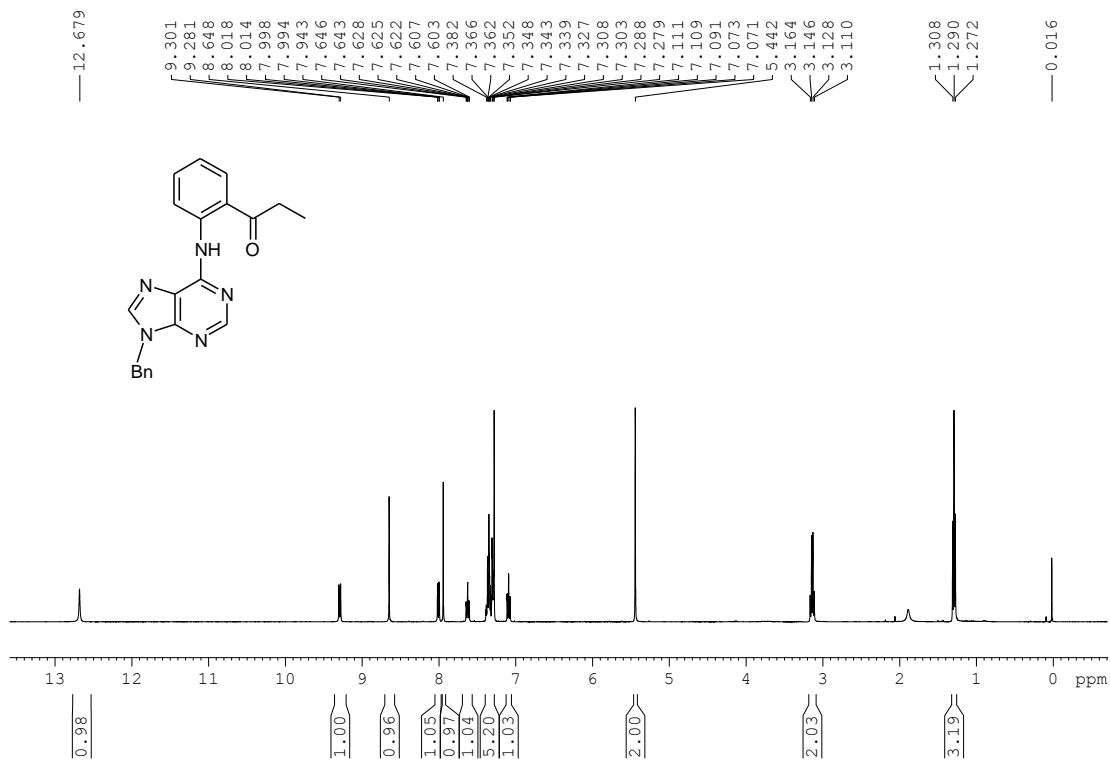


Figure S48. ¹H NMR spectrum of compound 3h

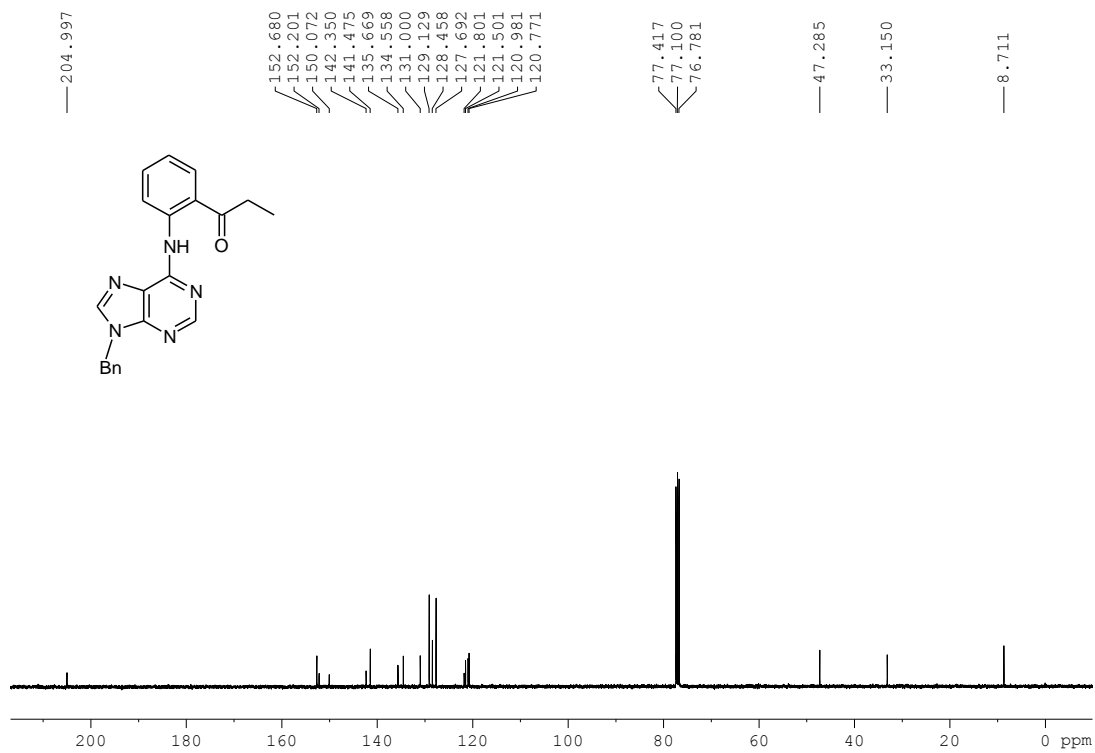


Figure S49. ¹³C NMR spectrum of compound 3h