Supplementary Materials

1. H-NMR

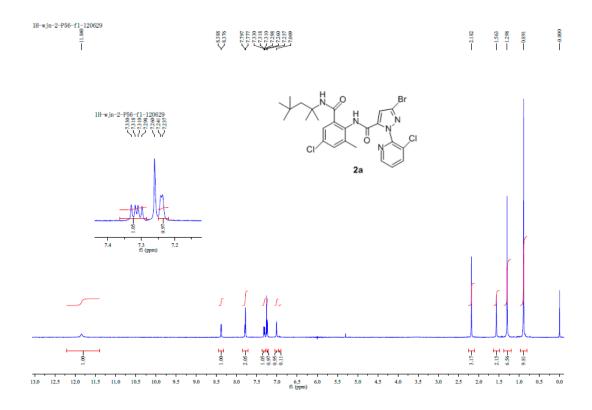


Figure S1. ¹H-NMR spectrum of compound 2a.

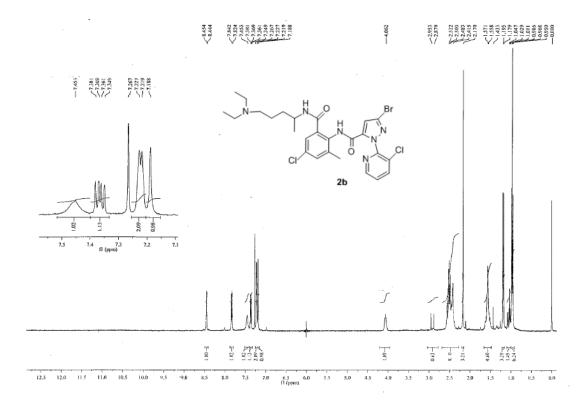


Figure S2. ¹H-NMR spectrum of compound 2b.

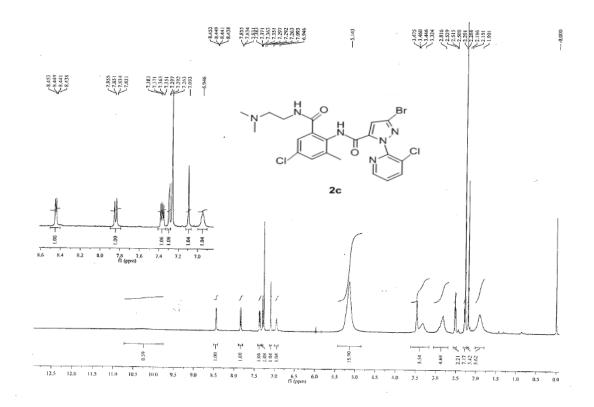


Figure S3. ¹H-NMR spectrum of compound 2c.

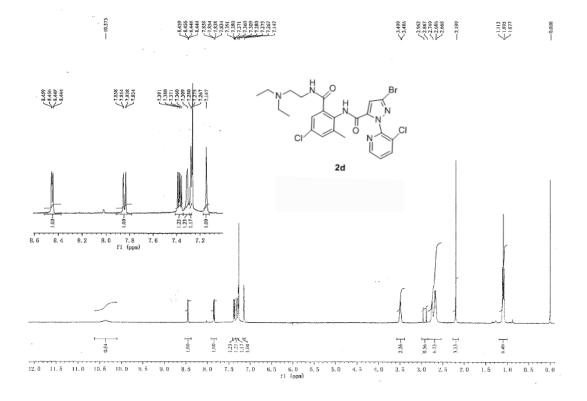


Figure S4. ¹H-NMR spectrum of compound 2d.

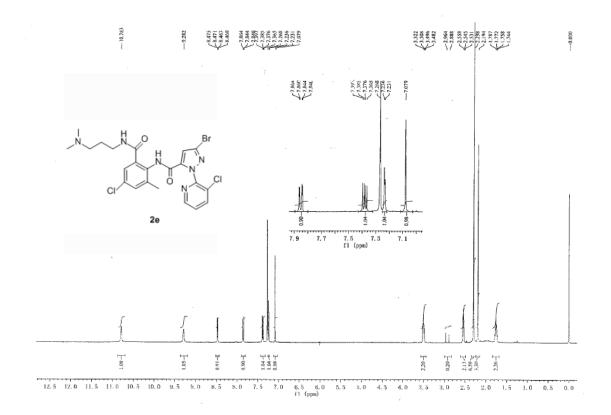


Figure S5. ¹H-NMR spectrum of compound 2e.

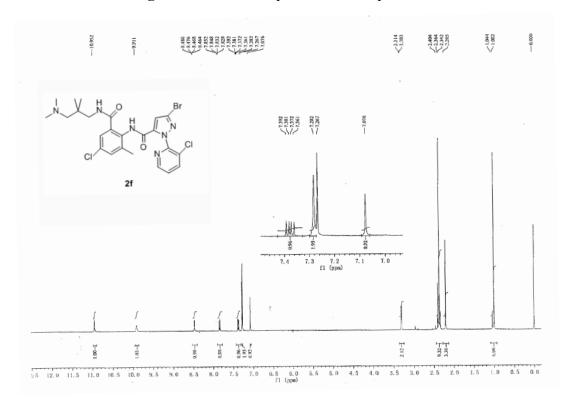


Figure S6. ¹H-NMR spectrum of compound 2f.

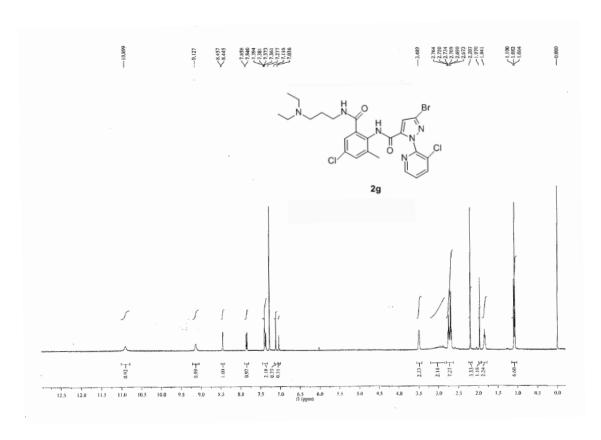


Figure S7. ¹H-NMR spectrum of compound 2g.

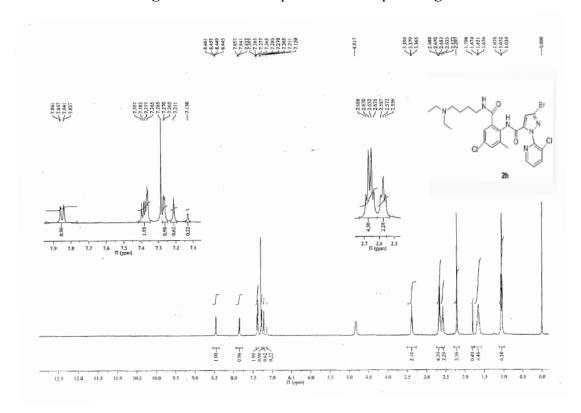


Figure S8. ¹H-NMR spectrum of compound 2h.

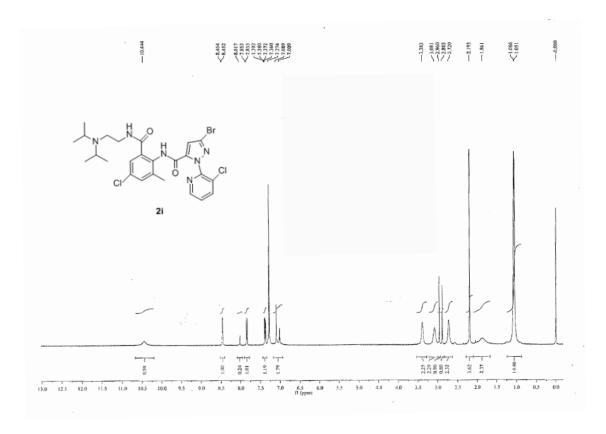


Figure S9. ¹H-NMR spectrum of compound 2i.

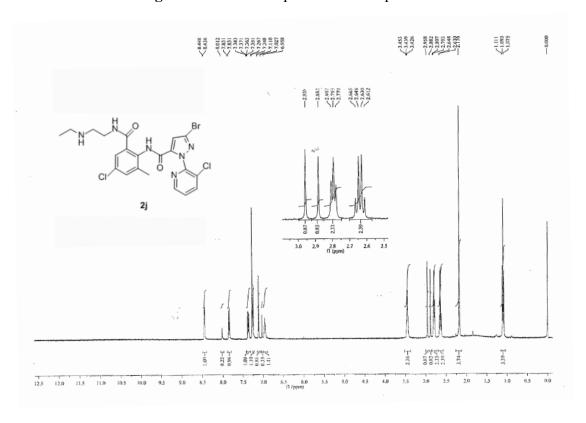


Figure S10. ¹H-NMR spectrum of compound 2j.

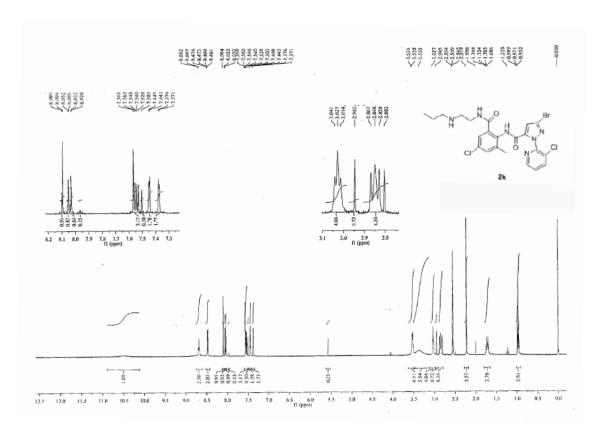


Figure S11. ¹H-NMR spectrum of compound 2k.

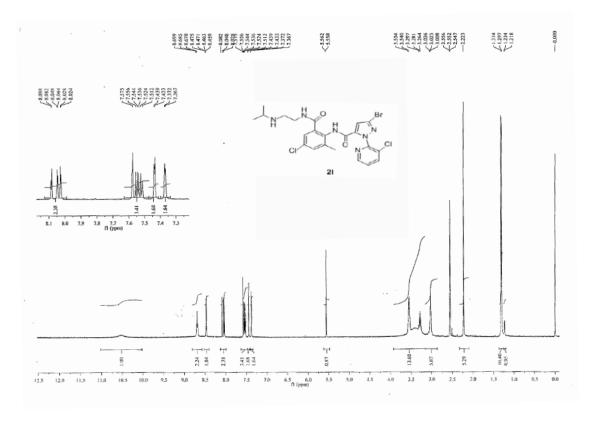


Figure S12. ¹H-NMR spectrum of compound 2l.

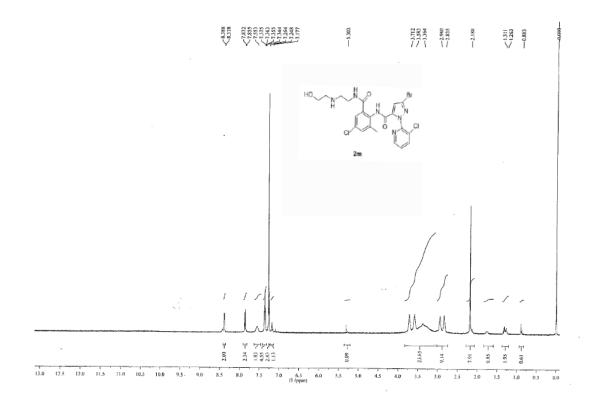


Figure S13. ¹H-NMR spectrum of compound 2m.

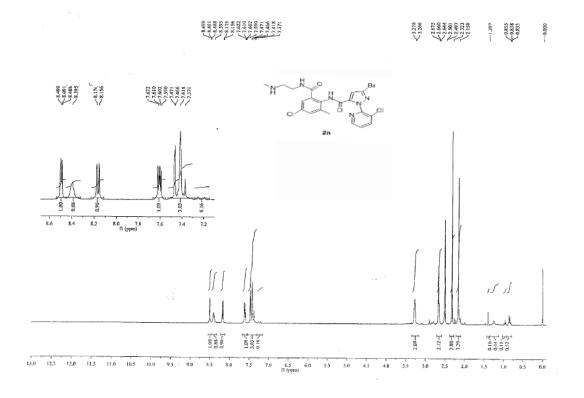


Figure S14. ¹H-NMR spectrum of compound 2n.

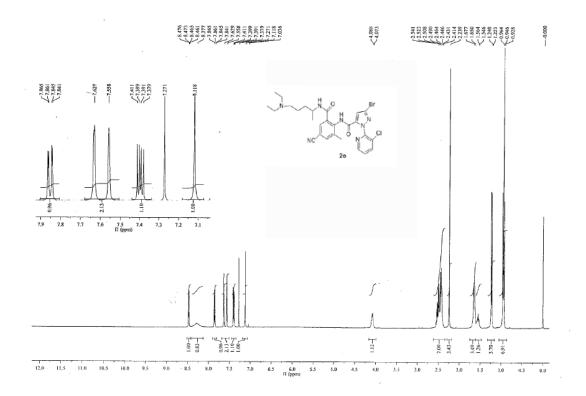


Figure S15. ¹H-NMR spectrum of compound 20.

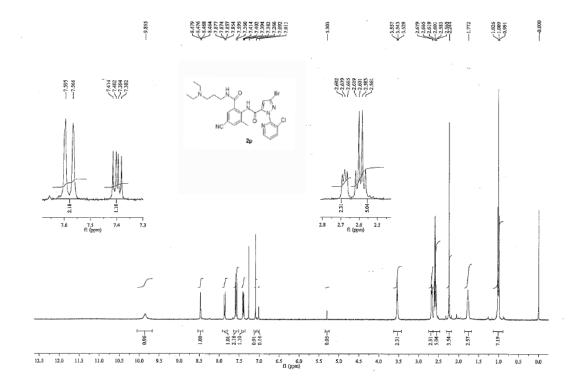


Figure S16. ¹H-NMR spectrum of compound 2p.

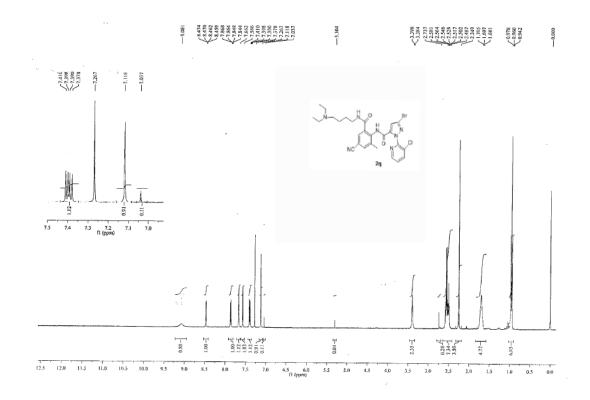


Figure S17. ¹H-NMR spectrum of compound 2q.

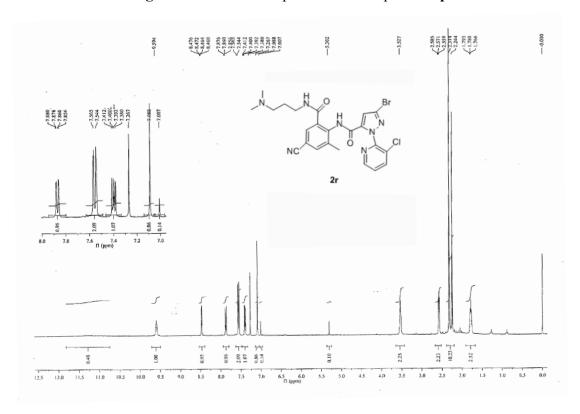


Figure S18. ¹H-NMR spectrum of compound 2r.

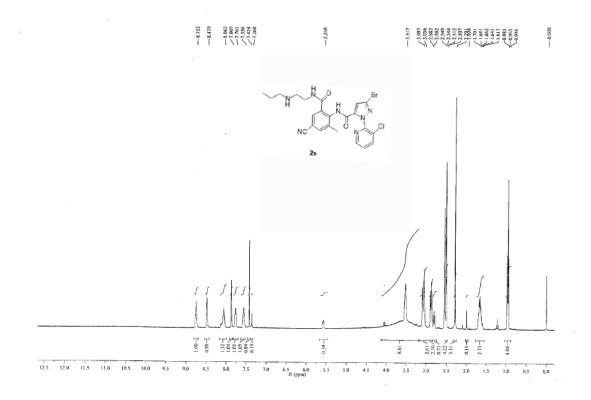


Figure S19. ¹H-NMR spectrum of compound 2s.

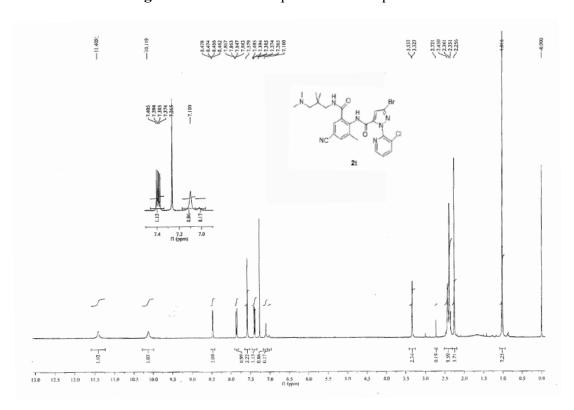


Figure S20. ¹H-NMR spectrum of compound 2t.

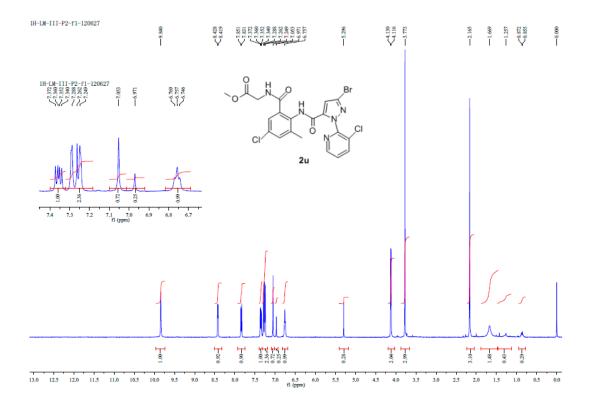


Figure S21. ¹H-NMR spectrum of compound 2u.

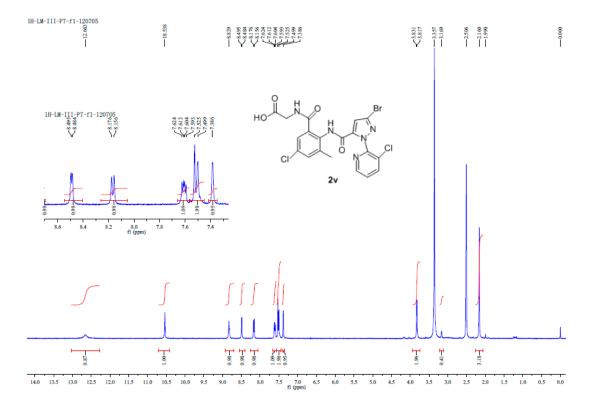


Figure S22. ¹H-NMR spectrum of compound 2v.

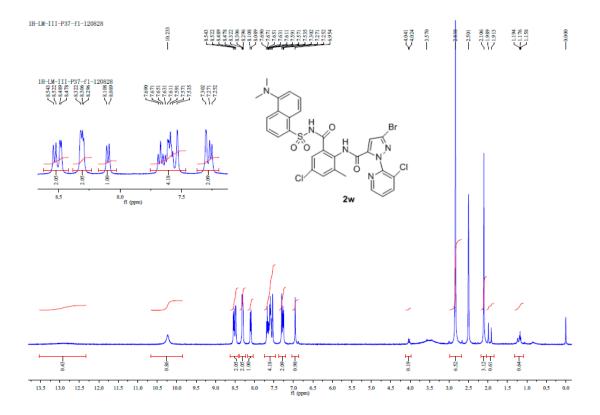


Figure \$23. ¹H-NMR spectrum of compound 2w.

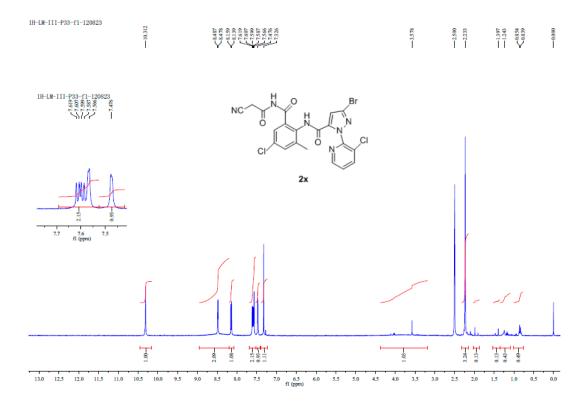


Figure S24. 1 H-NMR spectrum of compound 2x.

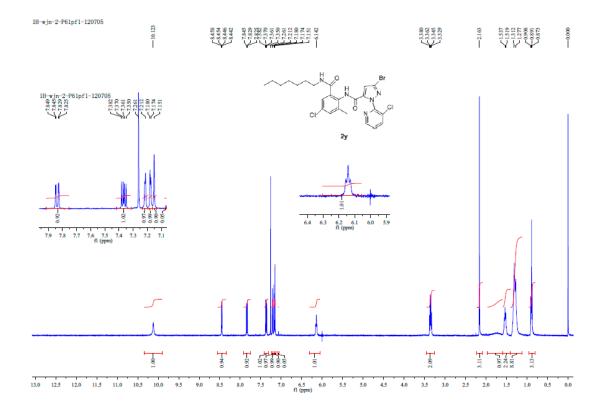


Figure S25. ¹H-NMR spectrum of compound 2y.

2. C-NMR

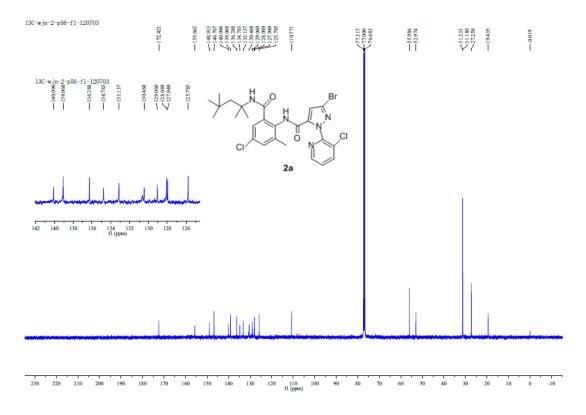


Figure S26. ¹³C-NMR spectrum of compound 2a.

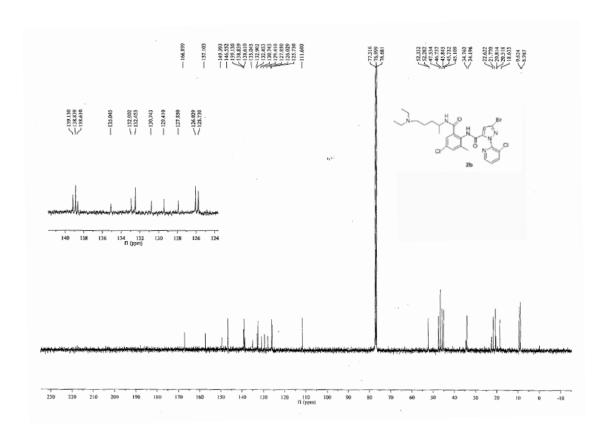


Figure S27. ¹³C-NMR spectrum of compound 2b.

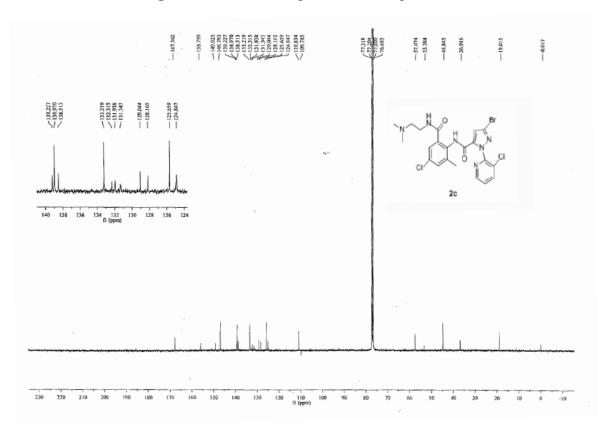


Figure S28. ¹³C-NMR spectrum of compound **2c**.

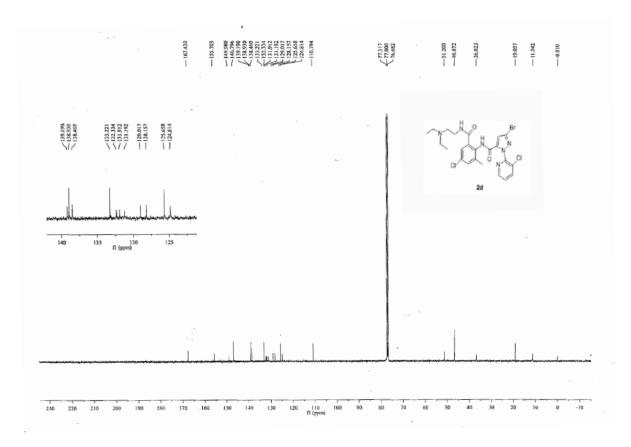


Figure S29. ¹³C-NMR spectrum of compound 2d.

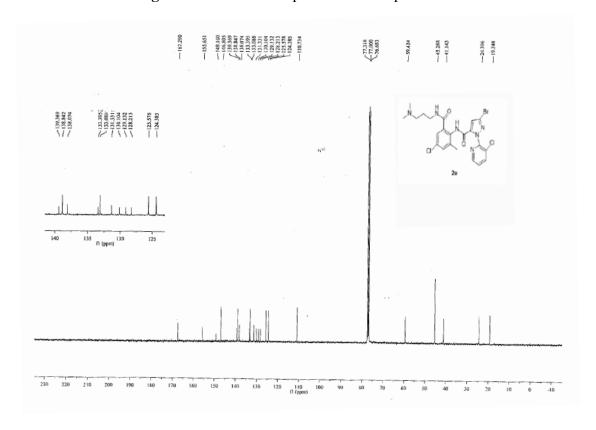


Figure S30. ¹³C-NMR spectrum of compound 2e.

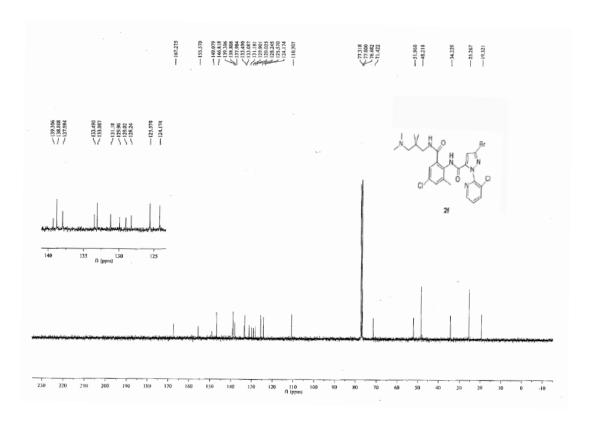


Figure S31. ¹³C-NMR spectrum of compound 2f.

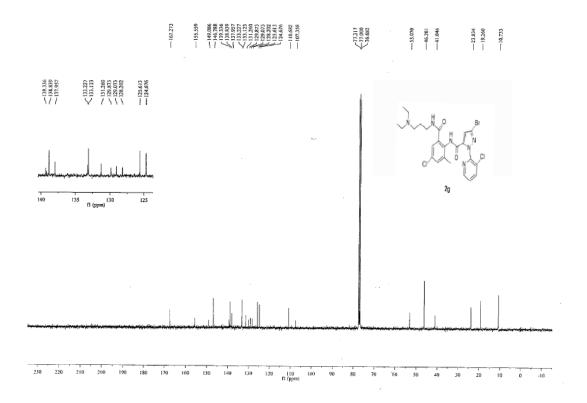


Figure S32. ¹³C-NMR spectrum of compound 2g.

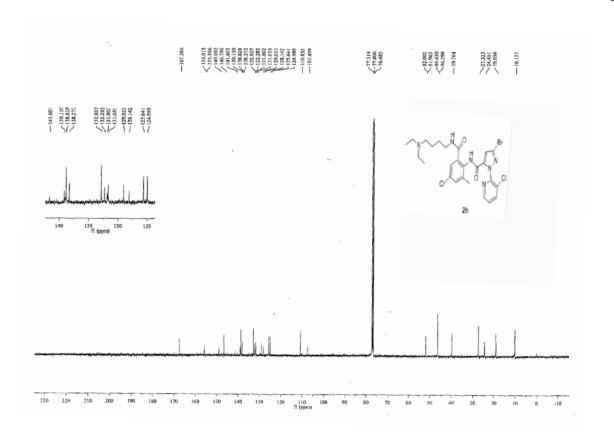


Figure S33. ¹³C-NMR spectrum of compound 2h.

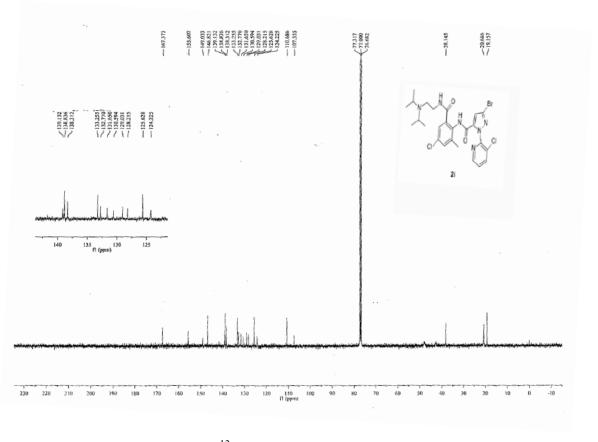


Figure S34. ¹³C-NMR spectrum of compound 2i.

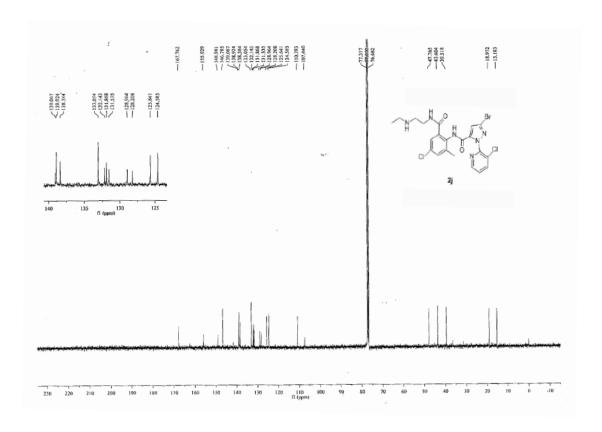


Figure S35. ¹³C-NMR spectrum of compound 2j.

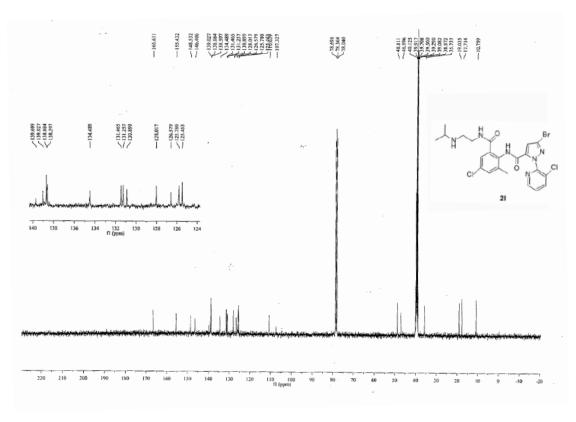


Figure S36. ¹³C-NMR spectrum of compound 2k.

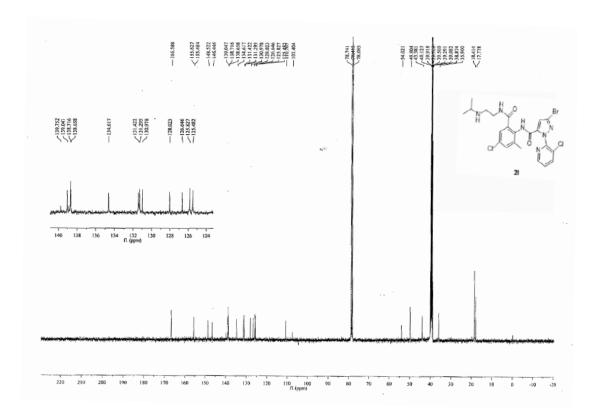


Figure S37. ¹³C-NMR spectrum of compound 2l.

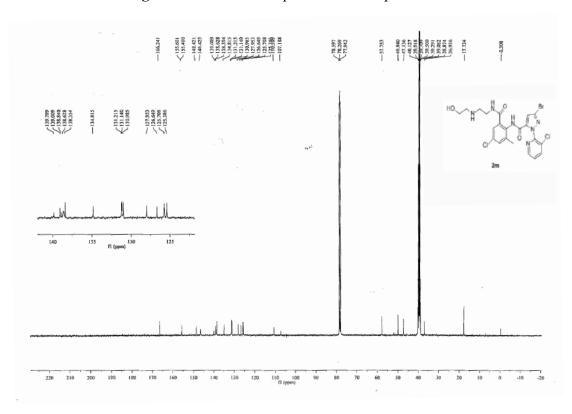


Figure S38. ¹³C-NMR spectrum of compound 2m.

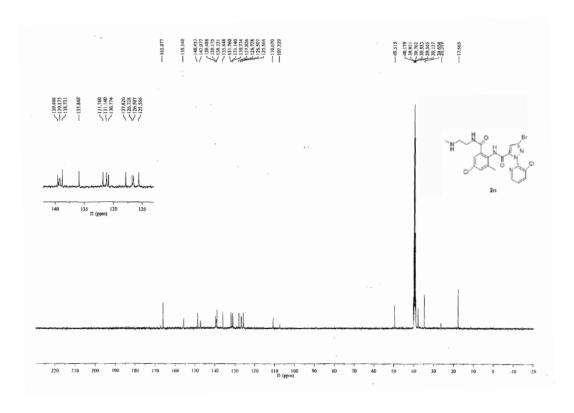


Figure S39. ¹³C-NMR spectrum of compound 2n.

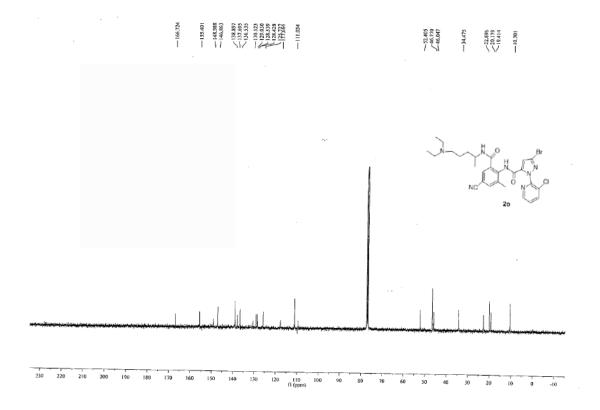


Figure S40. ¹³C-NMR spectrum of compound 20.

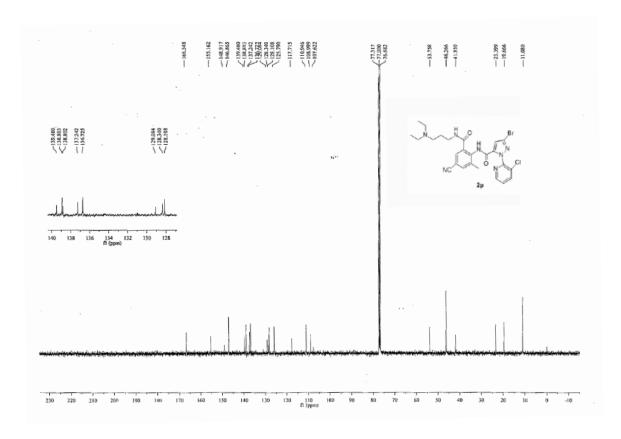


Figure S41. ¹³C-NMR spectrum of compound 2p.

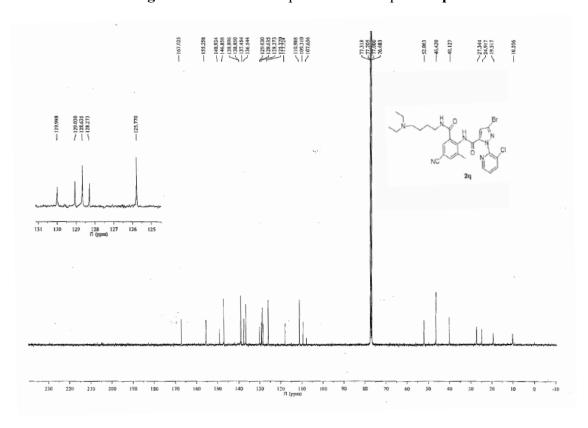


Figure S42. ¹³C-NMR spectrum of compound 2q.

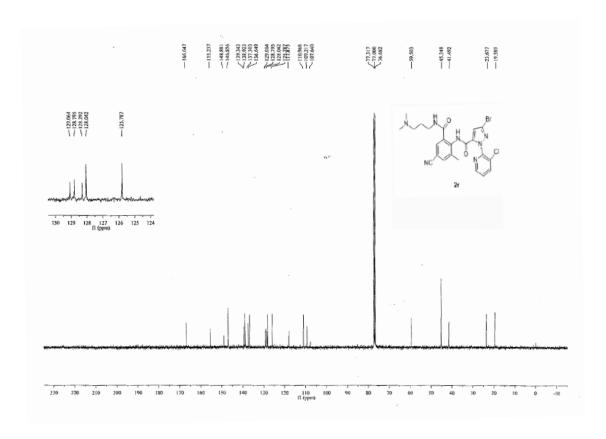


Figure S43. ¹³C-NMR spectrum of compound 2r.

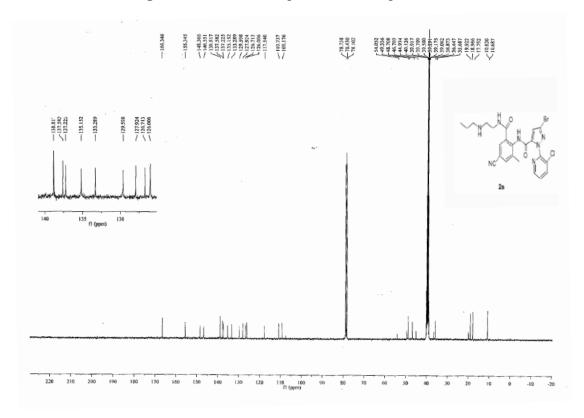


Figure S44. ¹³C-NMR spectrum of compound **2s**.

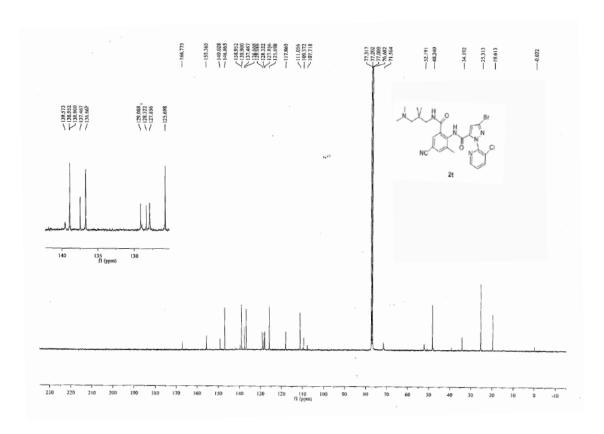


Figure S45. ¹³C-NMR spectrum of compound 2t.

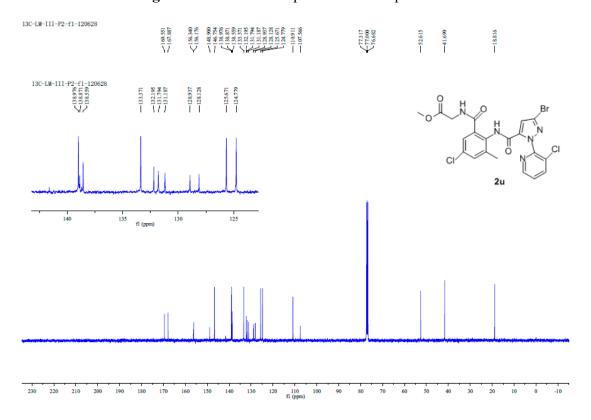


Figure S46. ¹³C-NMR spectrum of compound 2u.

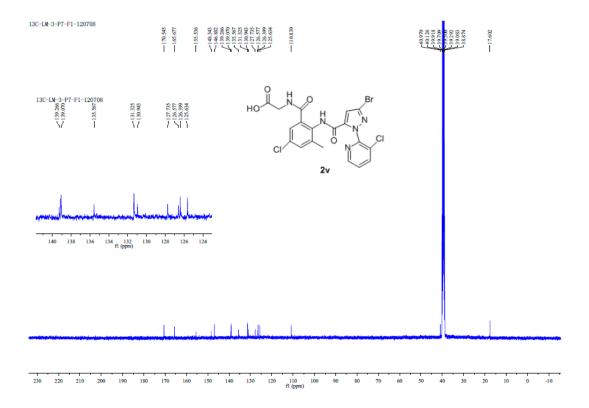


Figure S47. ¹³C-NMR spectrum of compound 2v.

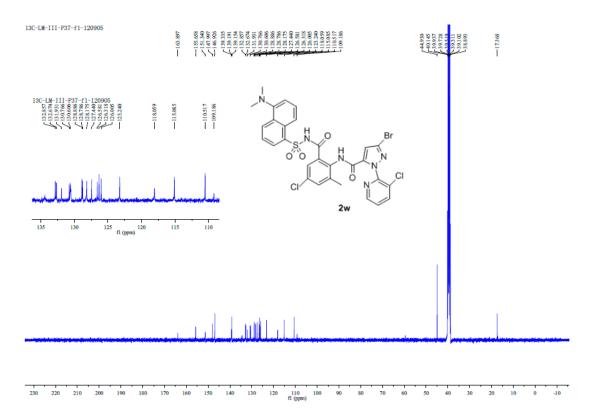


Figure S48. ¹³C-NMR spectrum of compound 2w.

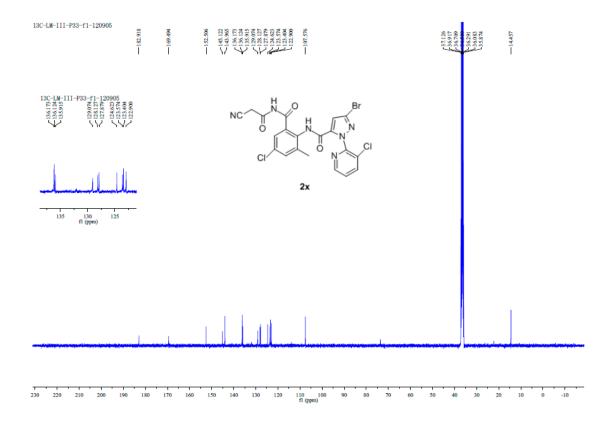


Figure S49. ¹³C-NMR spectrum of compound 2x.

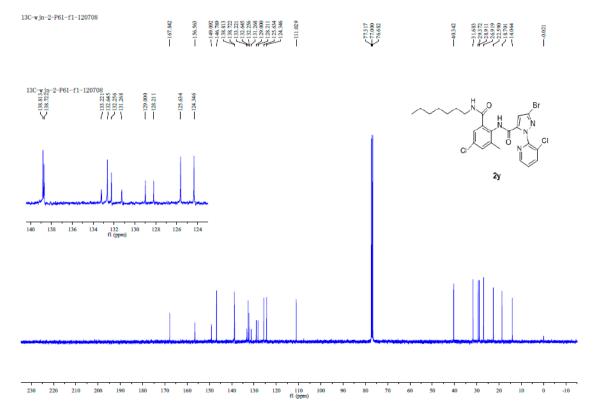


Figure S50. ¹³C-NMR spectrum of compound 2y.

3. HR-MS

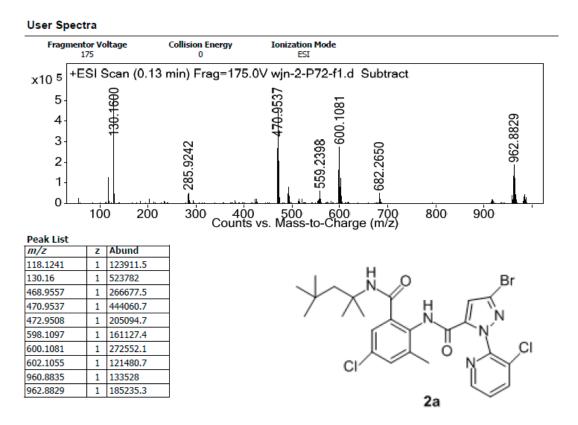


Figure S51. HR-MS spectrum of compound 2a.

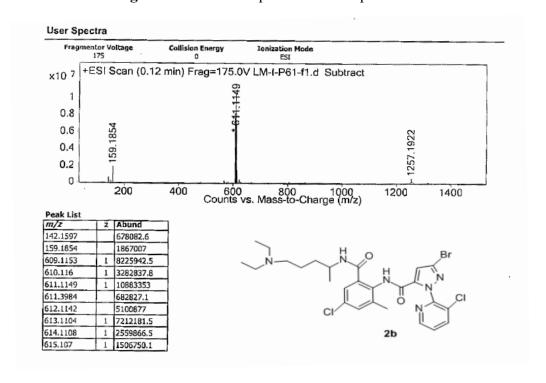


Figure S52. HR-MS spectrum of compound 2b.

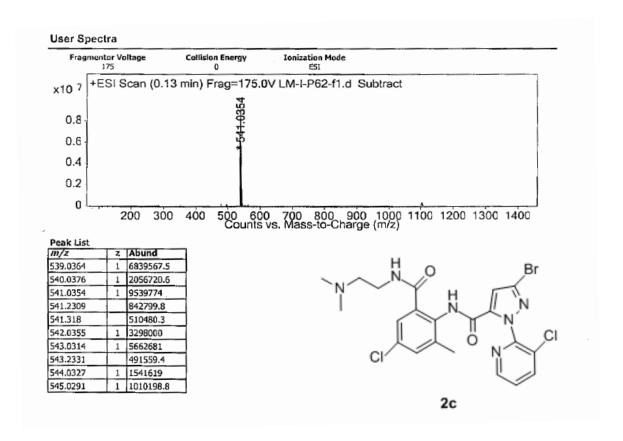


Figure S53. HR-MS spectrum of compound 2c.

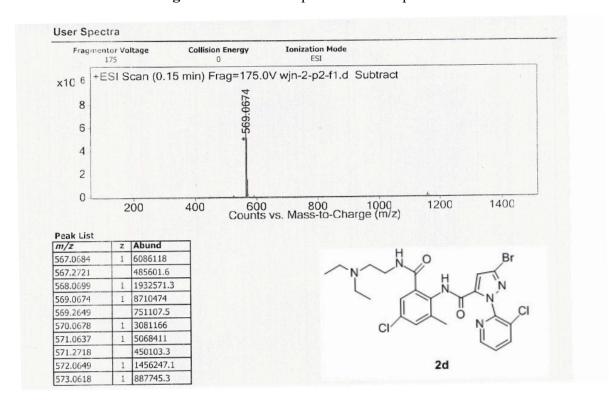


Figure S54. HR-MS spectrum of compound 2d.

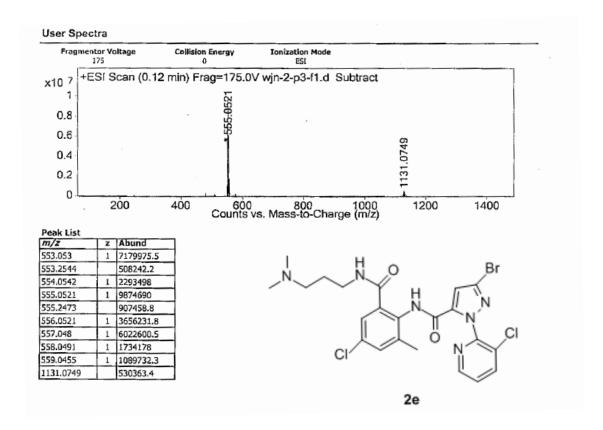


Figure S55. HR-MS spectrum of compound 2e.

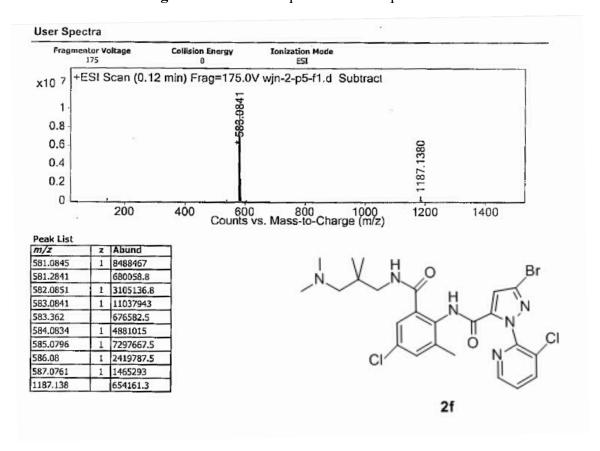


Figure S56. HR-MS spectrum of compound 2f.

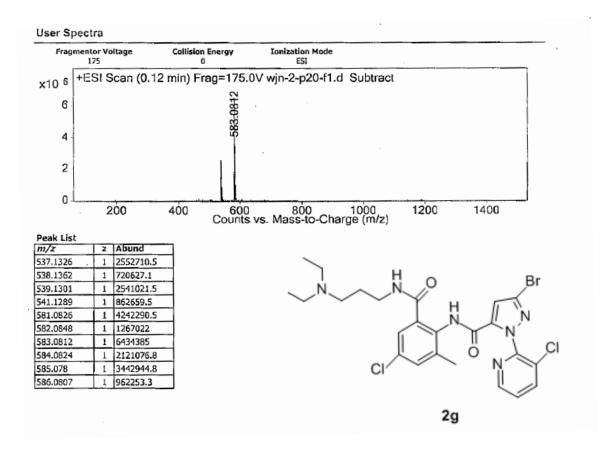


Figure S57. HR-MS spectrum of compound 2g.

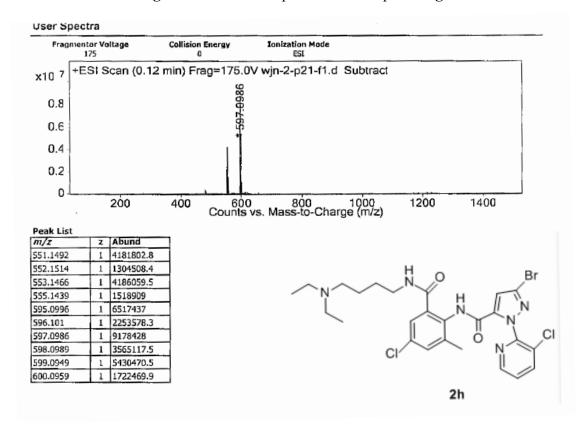


Figure S58. HR-MS spectrum of compound 2h.

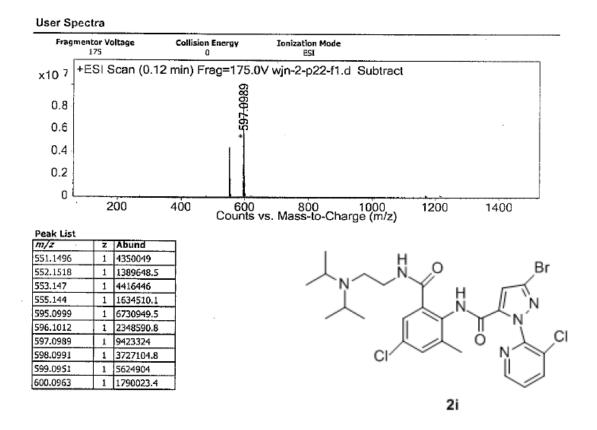


Figure S59. HR-MS spectrum of compound 2i.

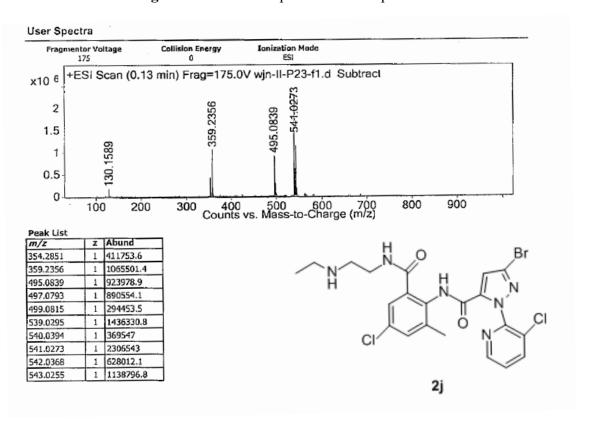


Figure S60. HR-MS spectrum of compound 2j.

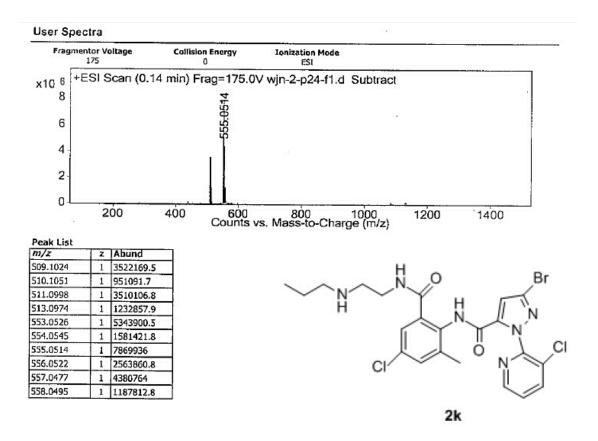


Figure S61. HR-MS spectrum of compound 2k.

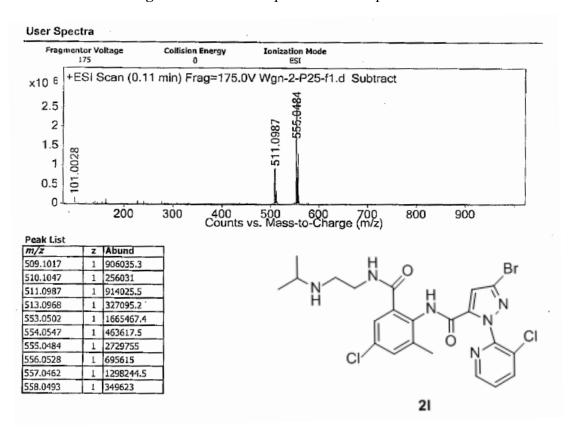


Figure S62. HR-MS spectrum of compound 21.

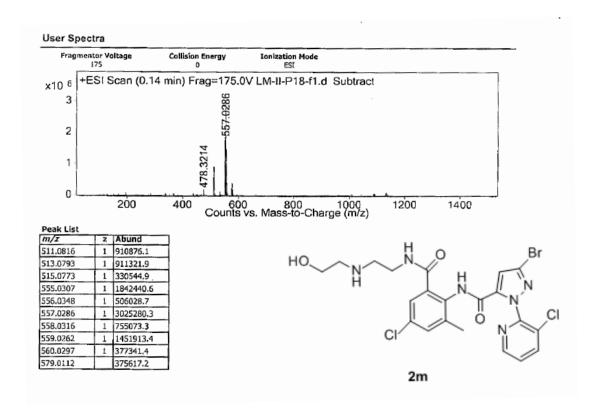


Figure S63. HR-MS spectrum of compound 2m.

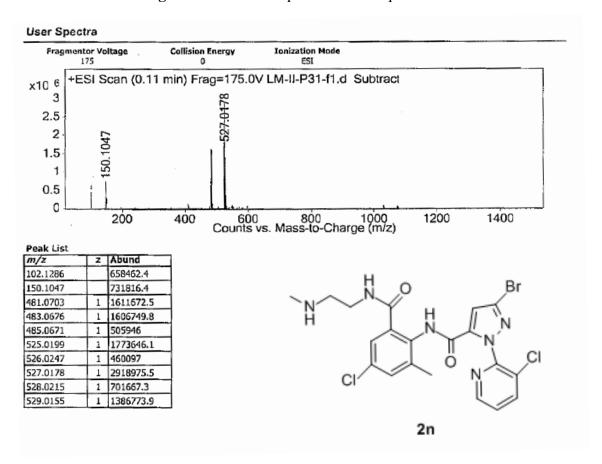


Figure S64. HR-MS spectrum of compound 2n.

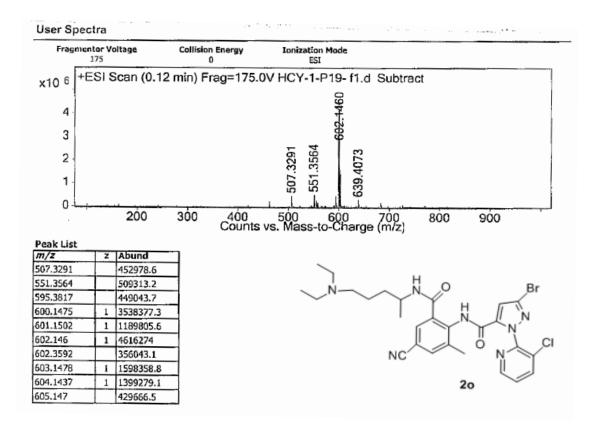


Figure S65. HR-MS spectrum of compound 20.

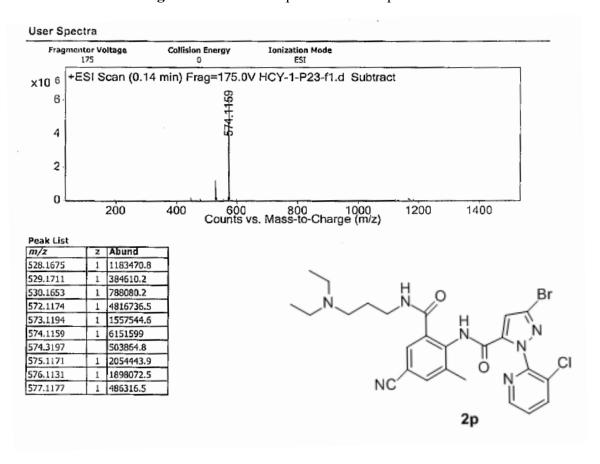


Figure S66. HR-MS spectrum of compound 2p.

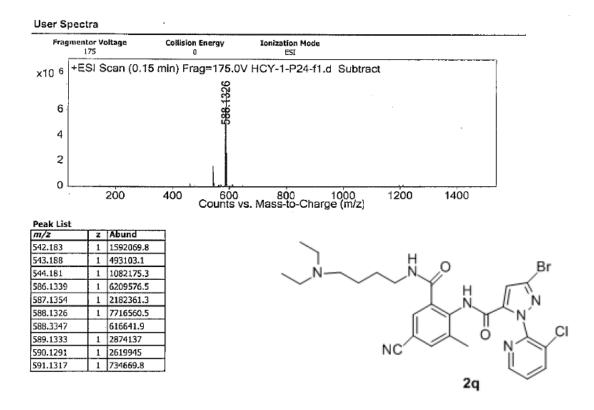


Figure S67. HR-MS spectrum of compound 2q.

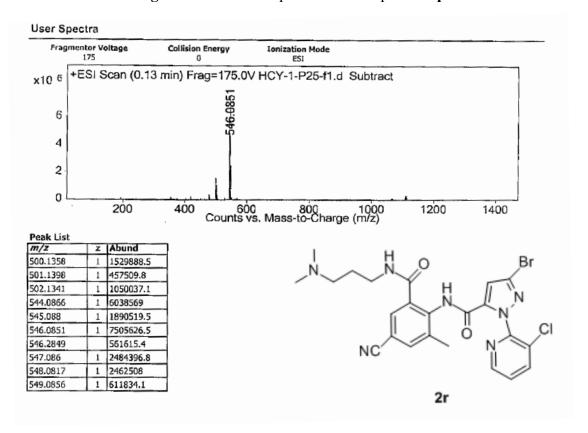


Figure S68. HR-MS spectrum of compound 2r.

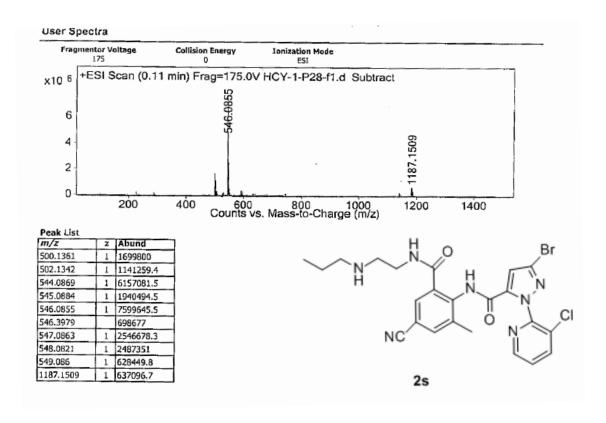


Figure S69. HR-MS spectrum of compound 2s.

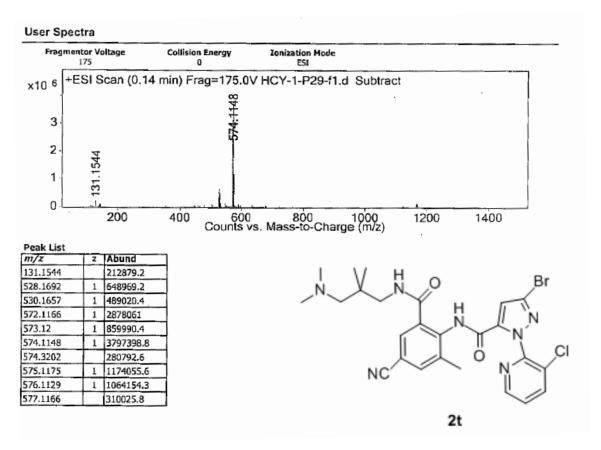


Figure S70. HR-MS spectrum of compound 2t.

User Spectra

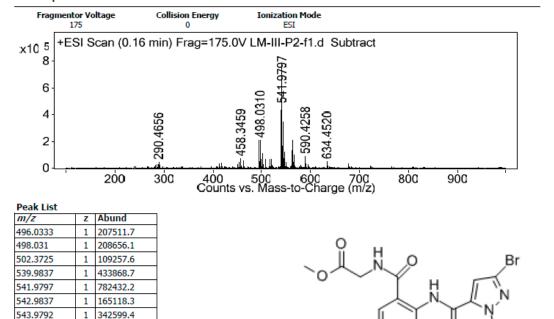


Figure S71. HR-MS spectrum of compound 2u.

2u

User Spectra

546.3989

561.9643

563.9633

121343.5

132692.8

1 211319.5

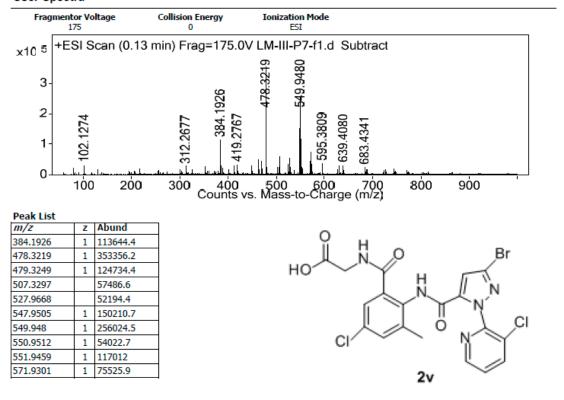


Figure S72. HR-MS spectrum of compound 2v.

User Spectra

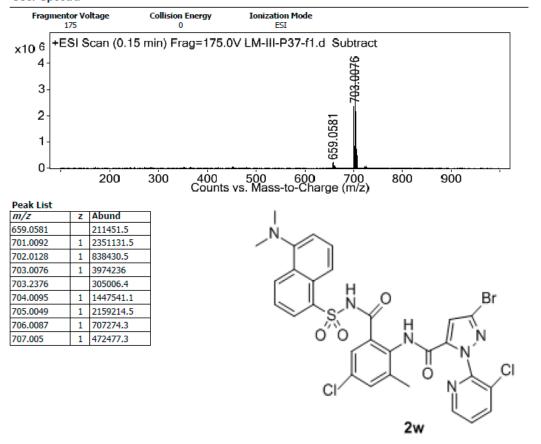


Figure S73. HR-MS spectrum of compound 2w.

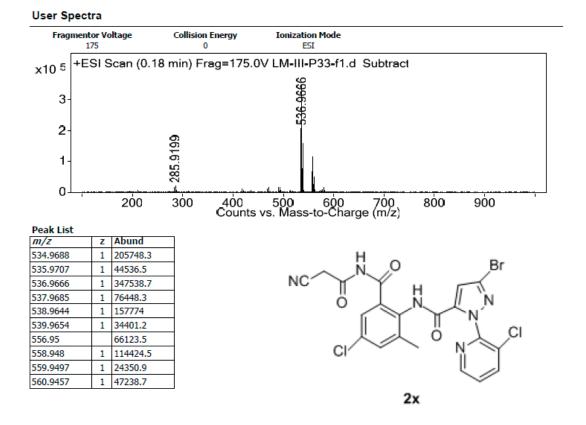


Figure S74. HR-MS spectrum of compound 2x.

User Spectra

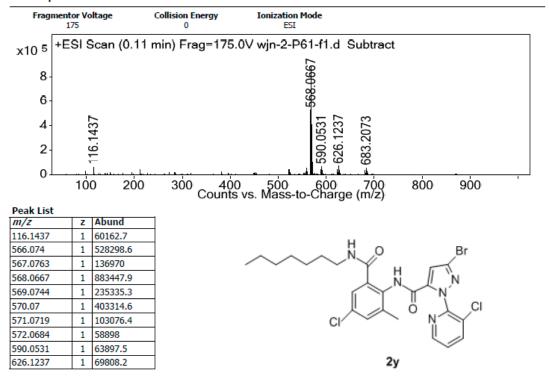


Figure S75. HR-MS spectrum of compound 2y.