

Synthesis and Biological Evaluation of Novel Aminochalcones as Potential Anticancer and Antimicrobial Agents

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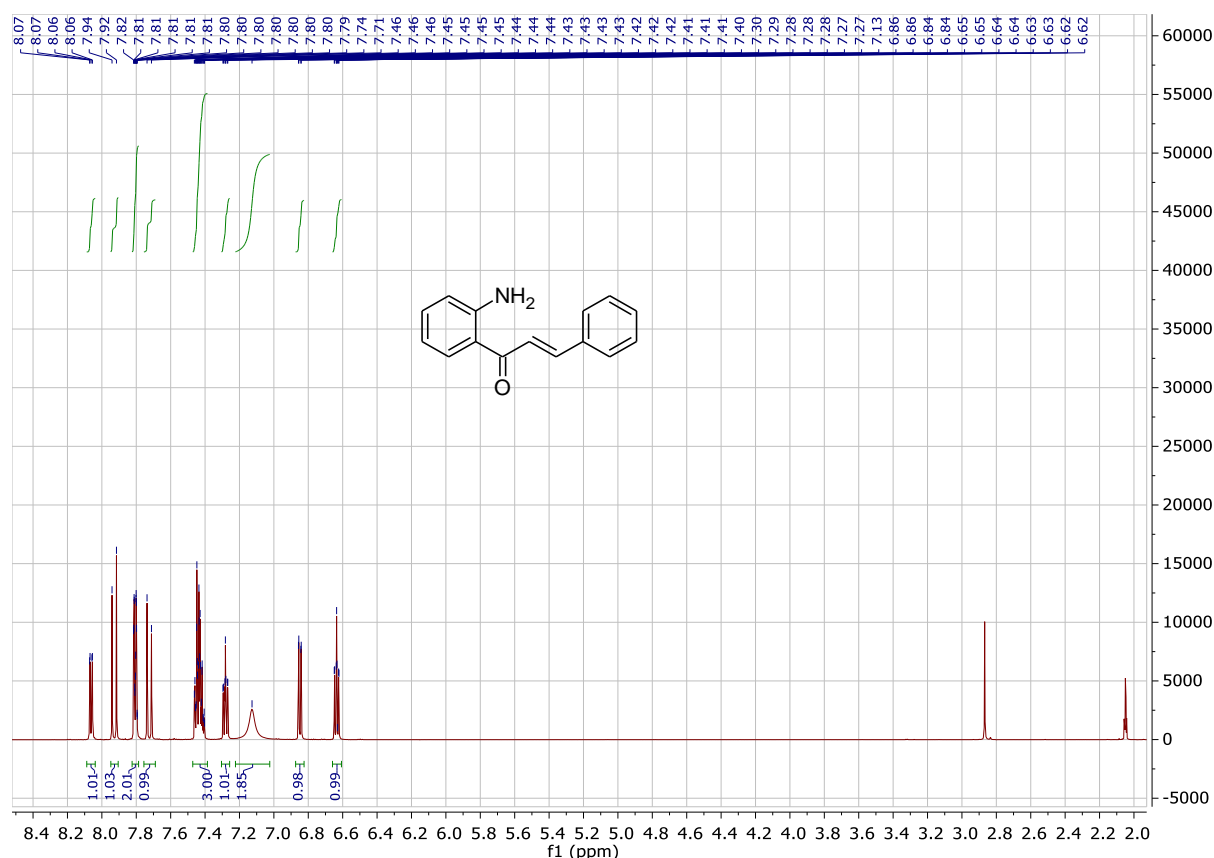


Figure S1. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 2'-aminochalcone (1)

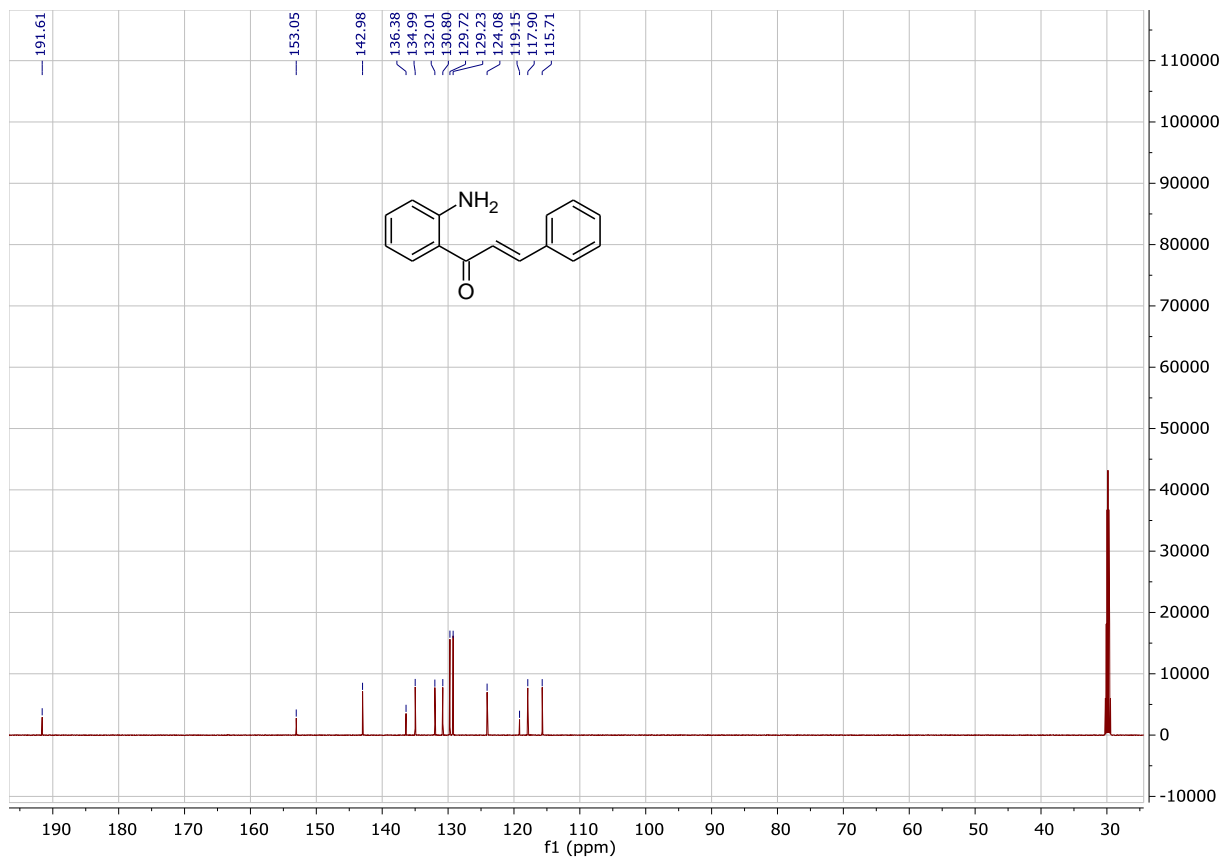


Figure S2. ^{13}C -NMR (150 MHz, acetone- d_6) spectrum of 2'-aminochalcone (1)

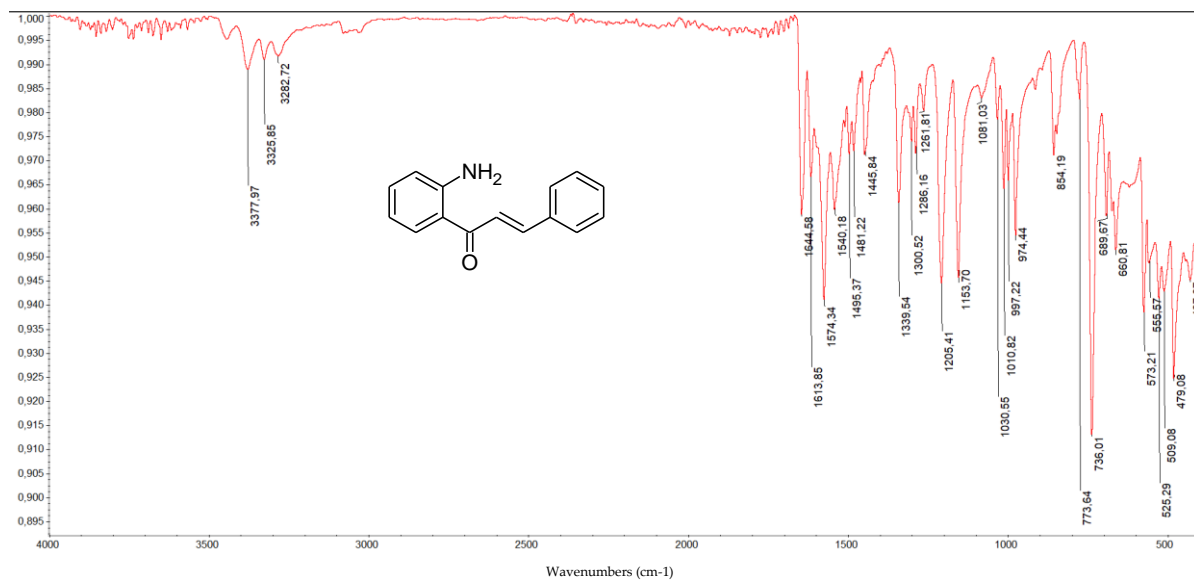


Figure S3. FTIR-ATR spectrum of 2'-aminochalcone (1)

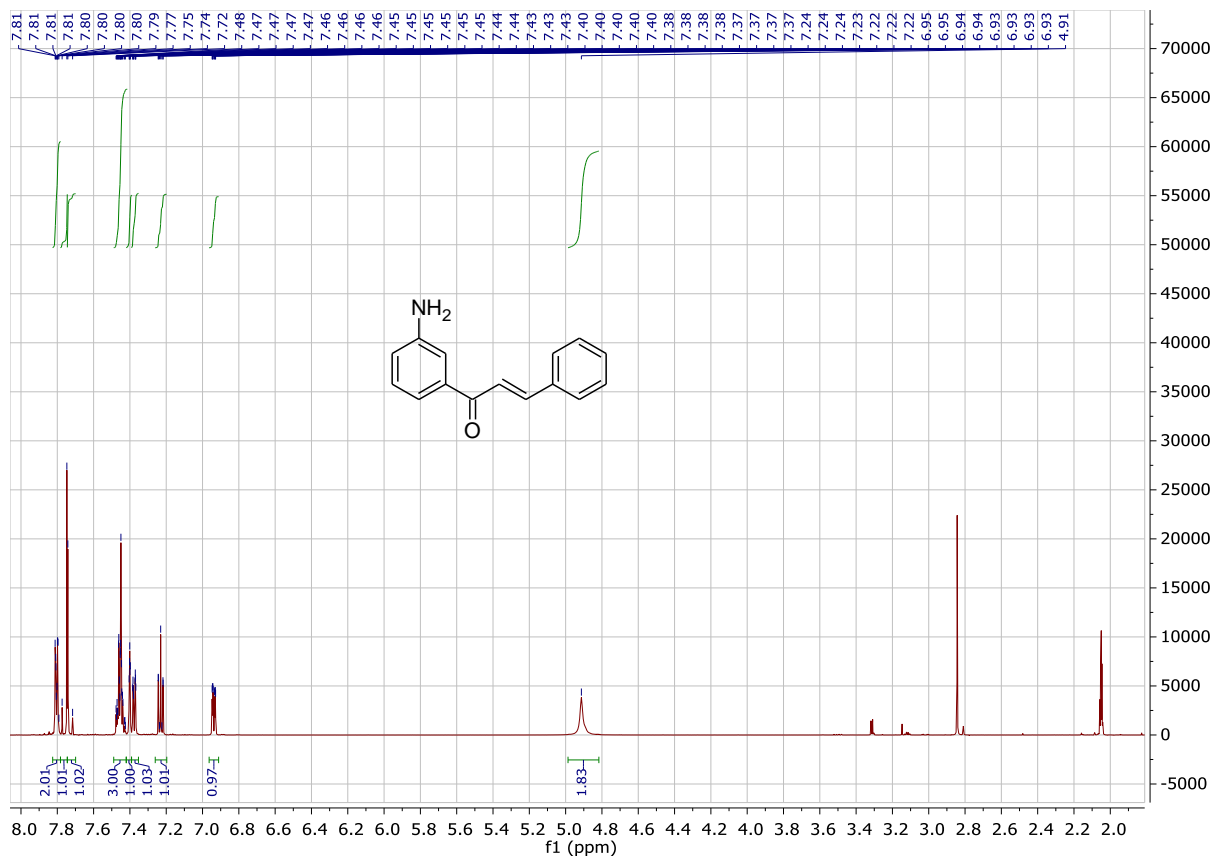


Figure S4. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 3'-aminochalcone (2)

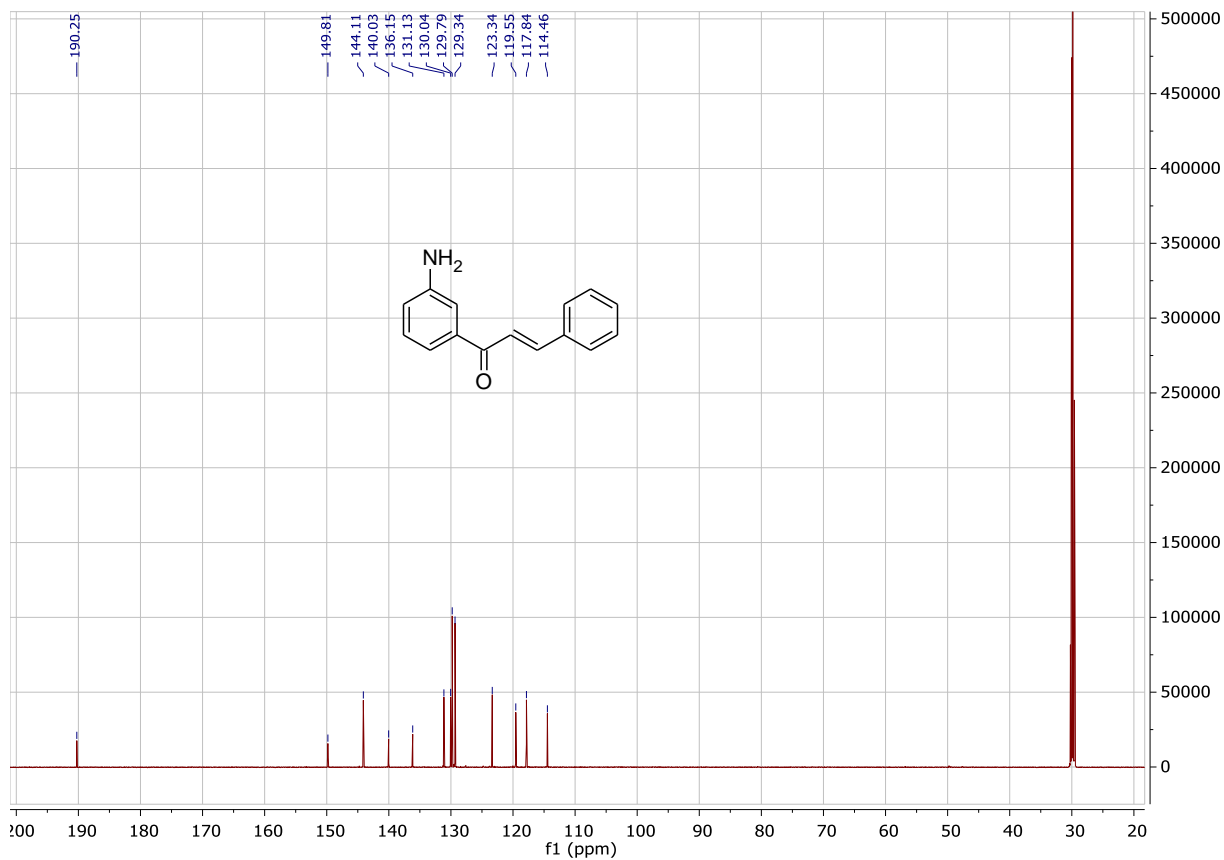


Figure S5. ¹³C-NMR (150 MHz, acetone-*d*₆) spectrum of 3'-aminochalcone (2)

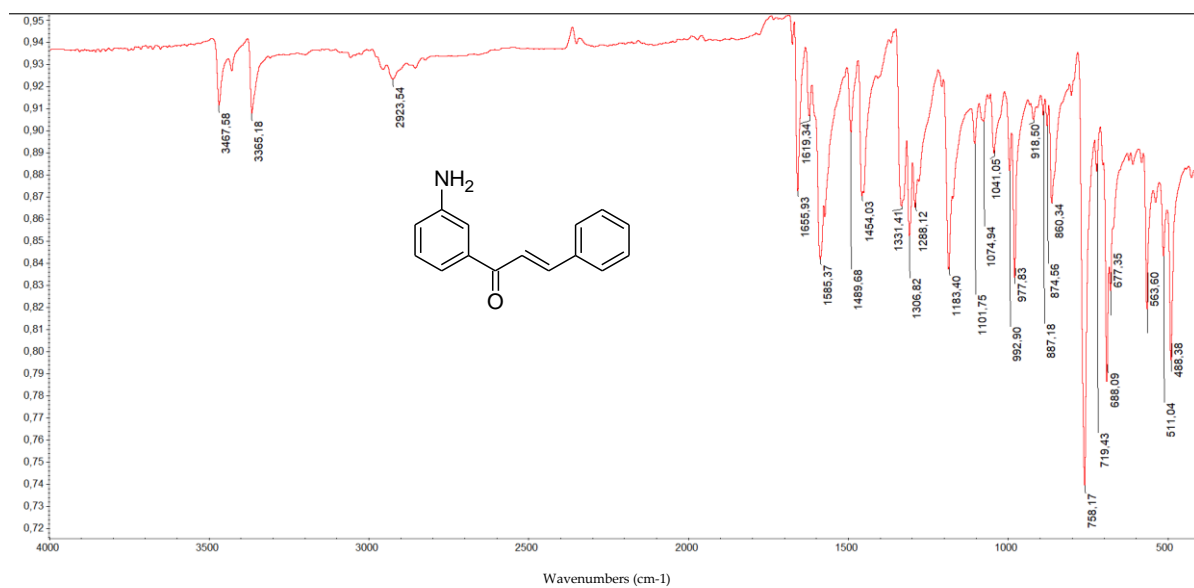


Figure S6. FTIR-ATR spectrum of 3'-aminochalcone (2)

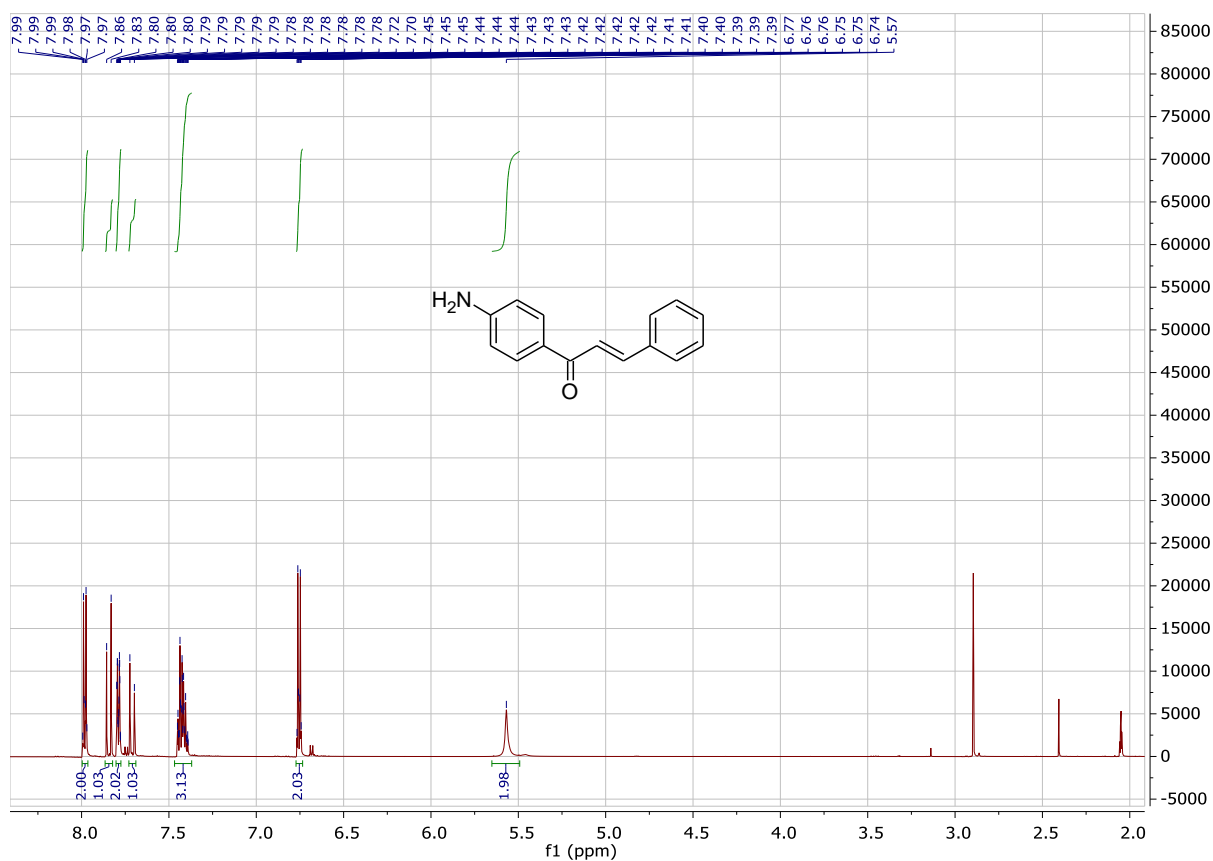


Figure S7. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 4'-aminochalcone (3)

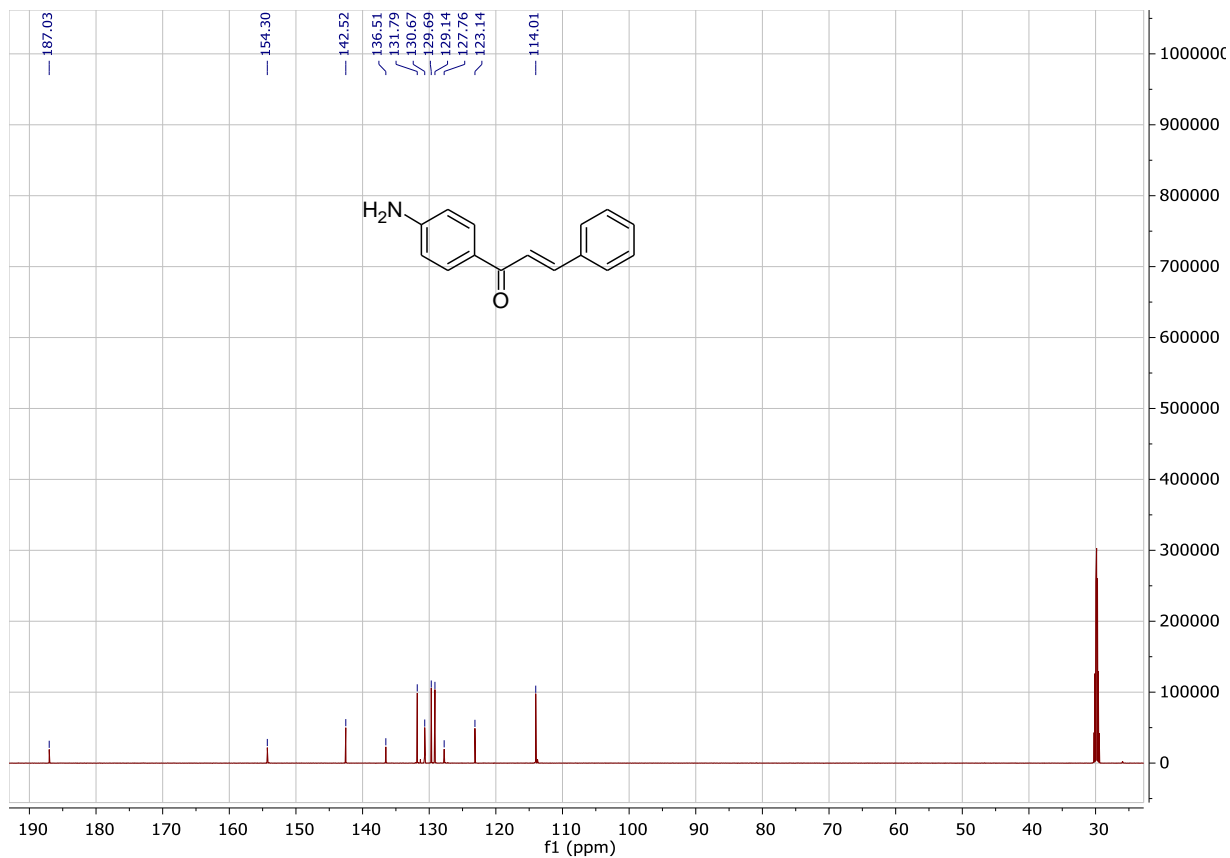


Figure S8. ^{13}C -NMR (150 MHz, acetone- d_6) spectrum of 4'-aminochalcone (3)

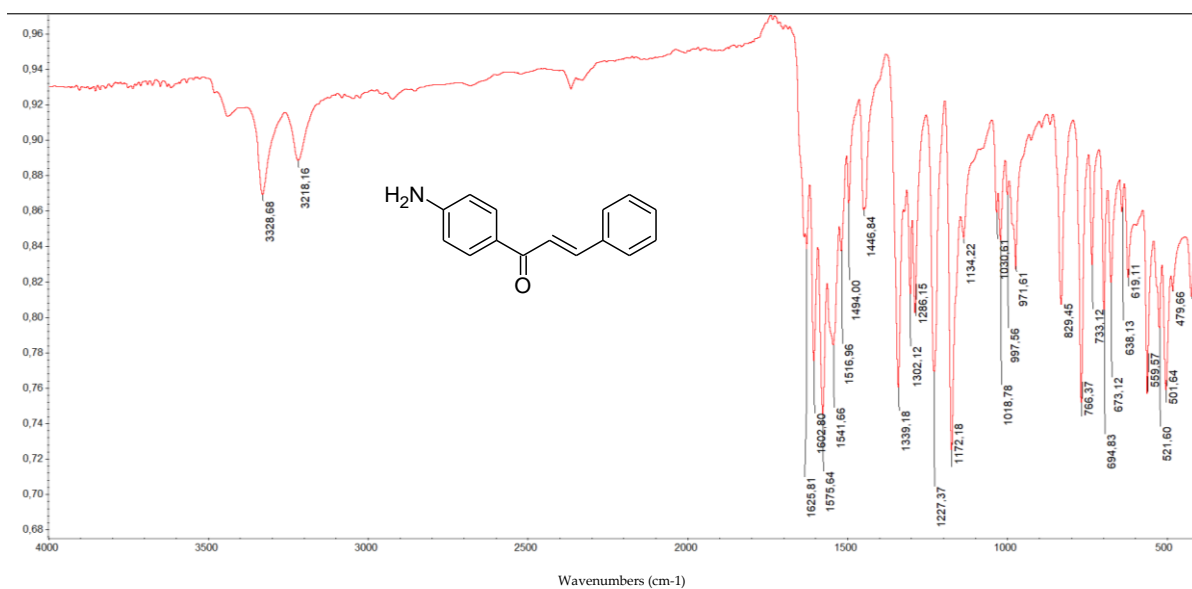


Figure S9. FTIR-ATR spectrum of 4'-aminochalcone (3)

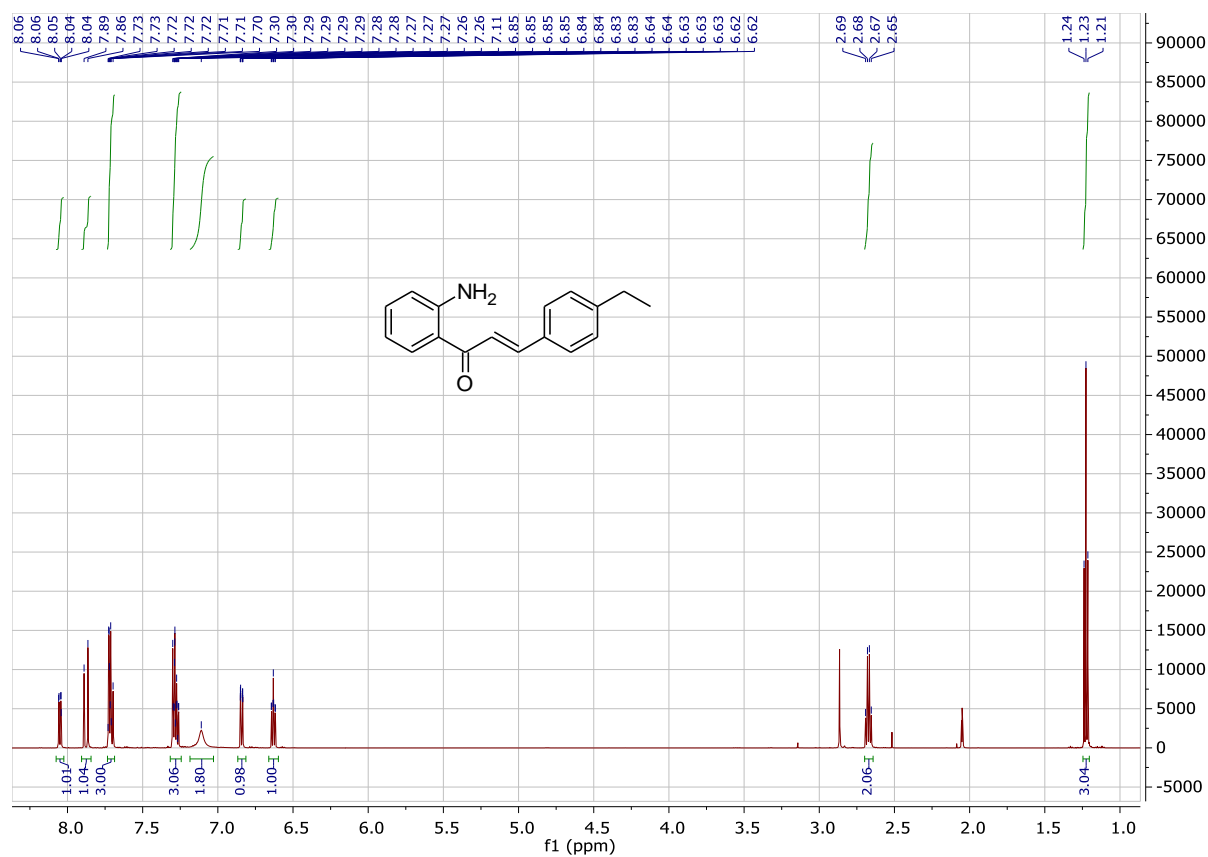


Figure S10. $^1\text{H-NMR}$ (600 MHz, acetone- d_6) spectrum of 2'-amino-4-ethylchalcone (4)

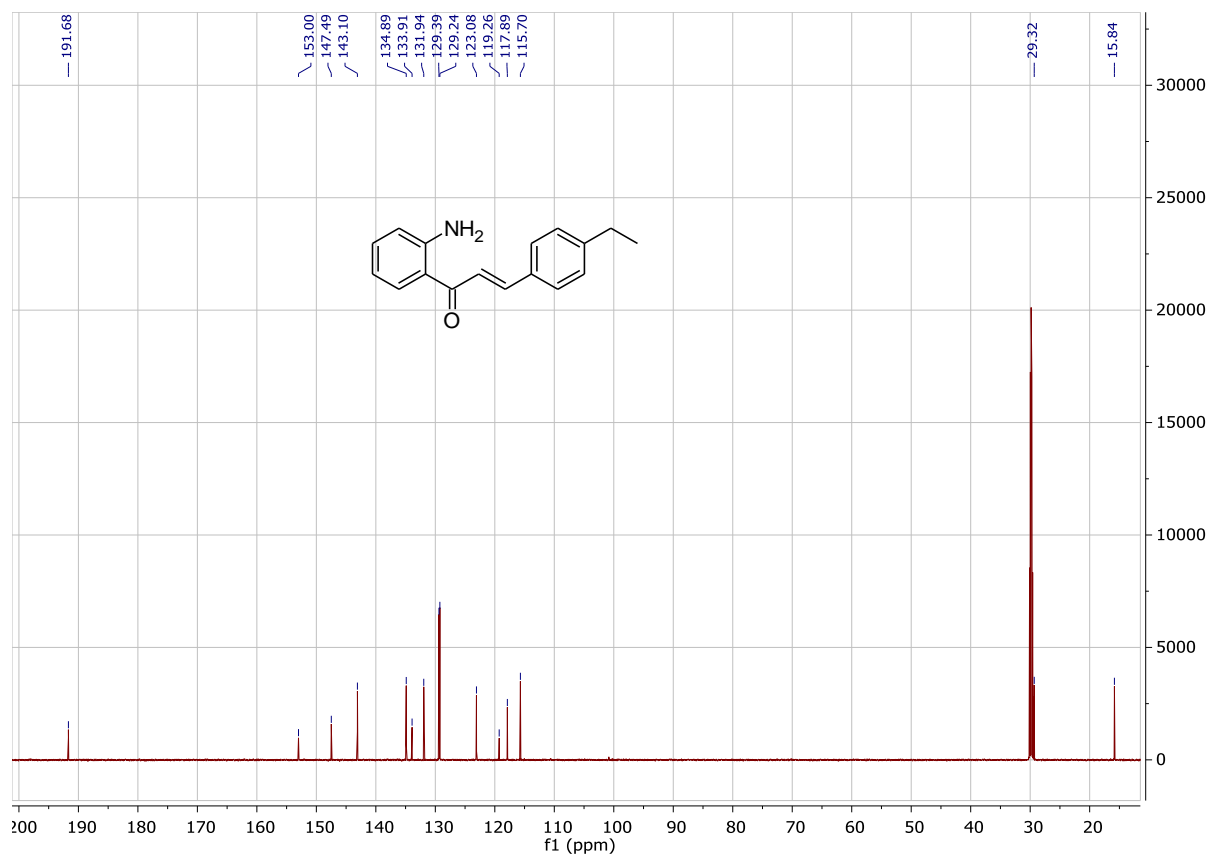


Figure S11. $^{13}\text{C-NMR}$ (150 MHz, acetone- d_6) spectrum of 2'-amino-4-ethylchalcone (4)

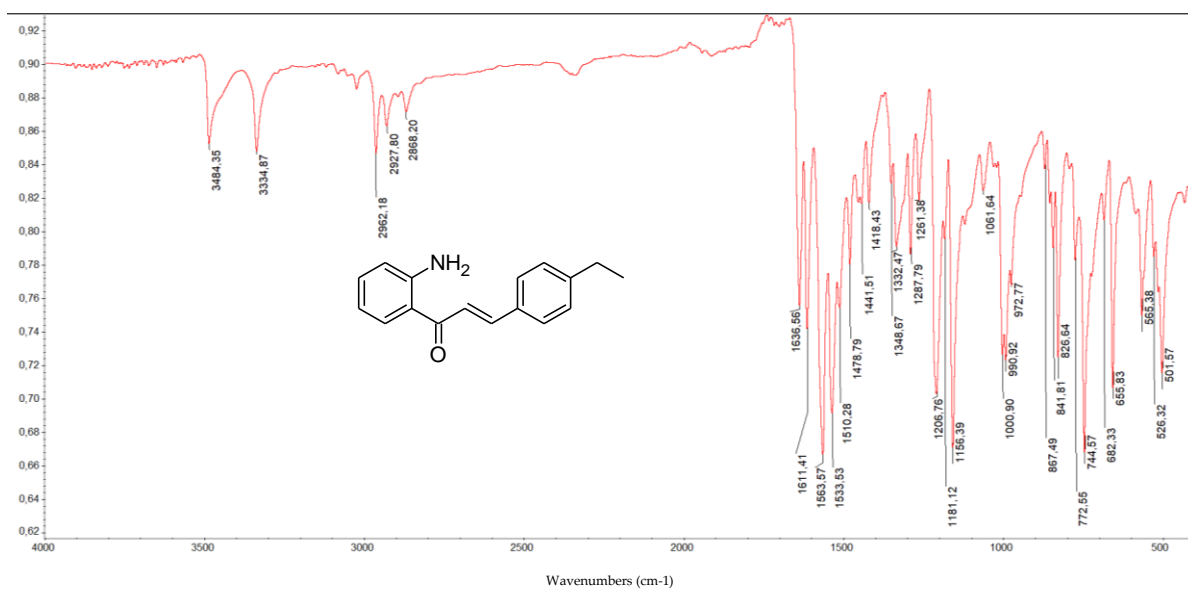


Figure S12. FTIR-ATR spectrum of 2'-amino-4-ethylchalcone (4)

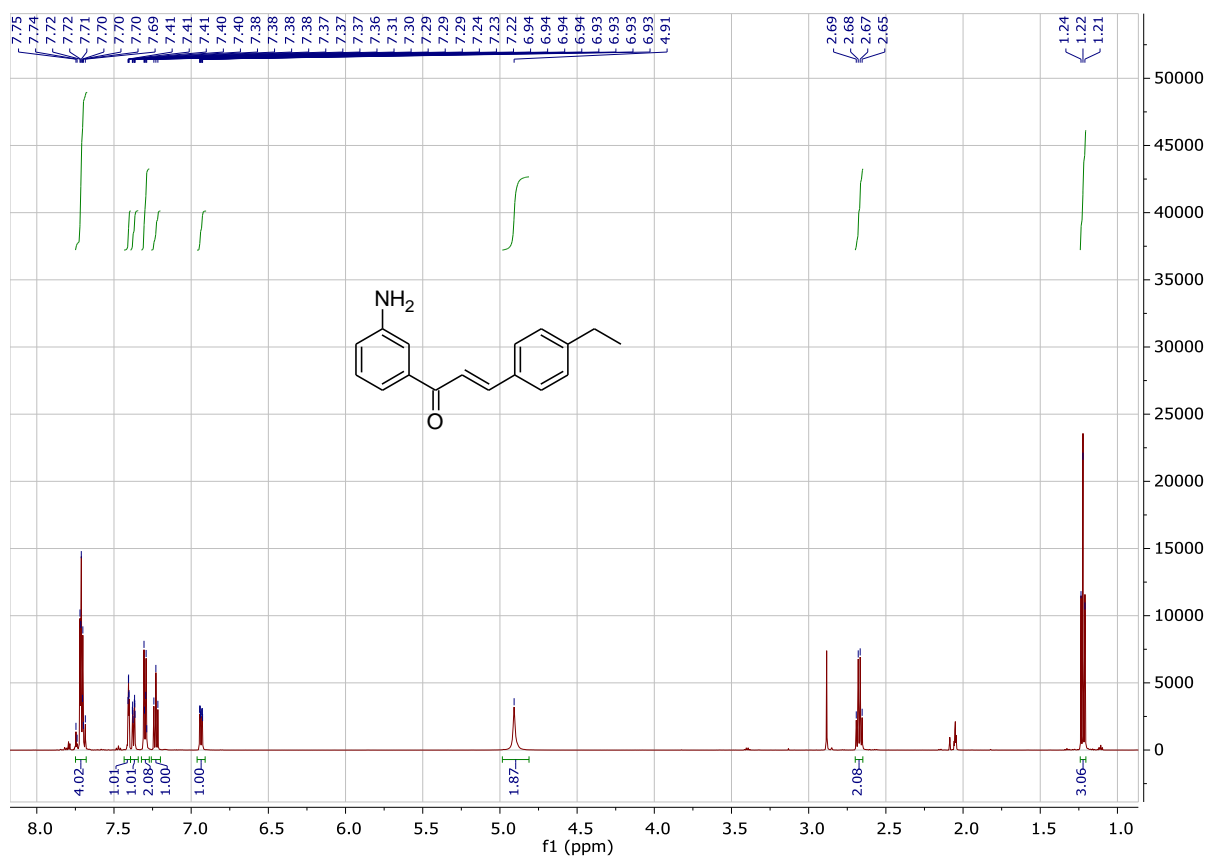
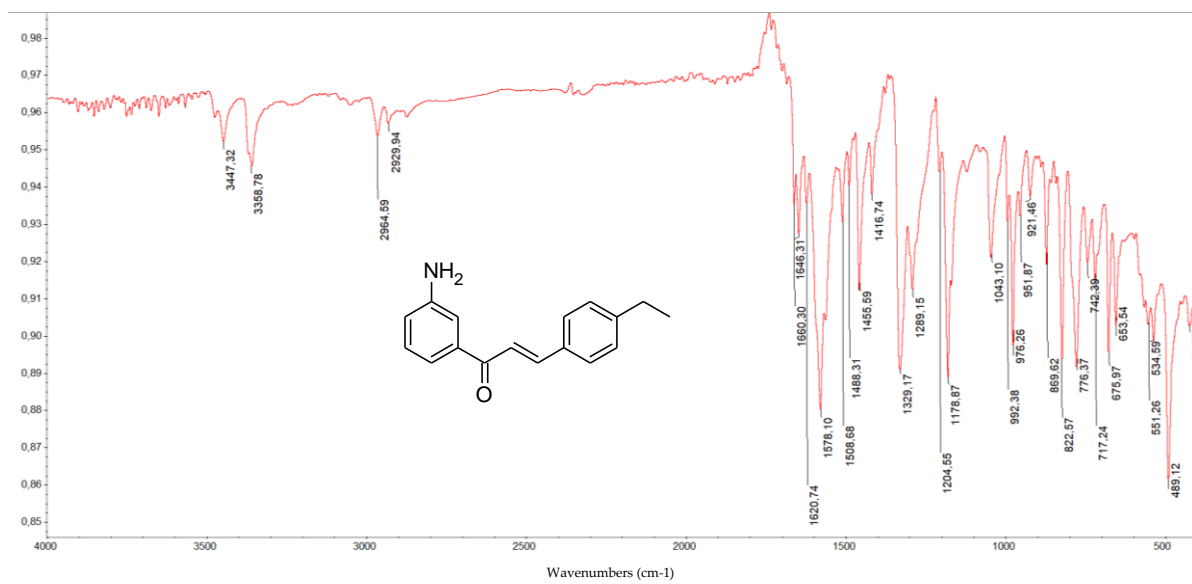
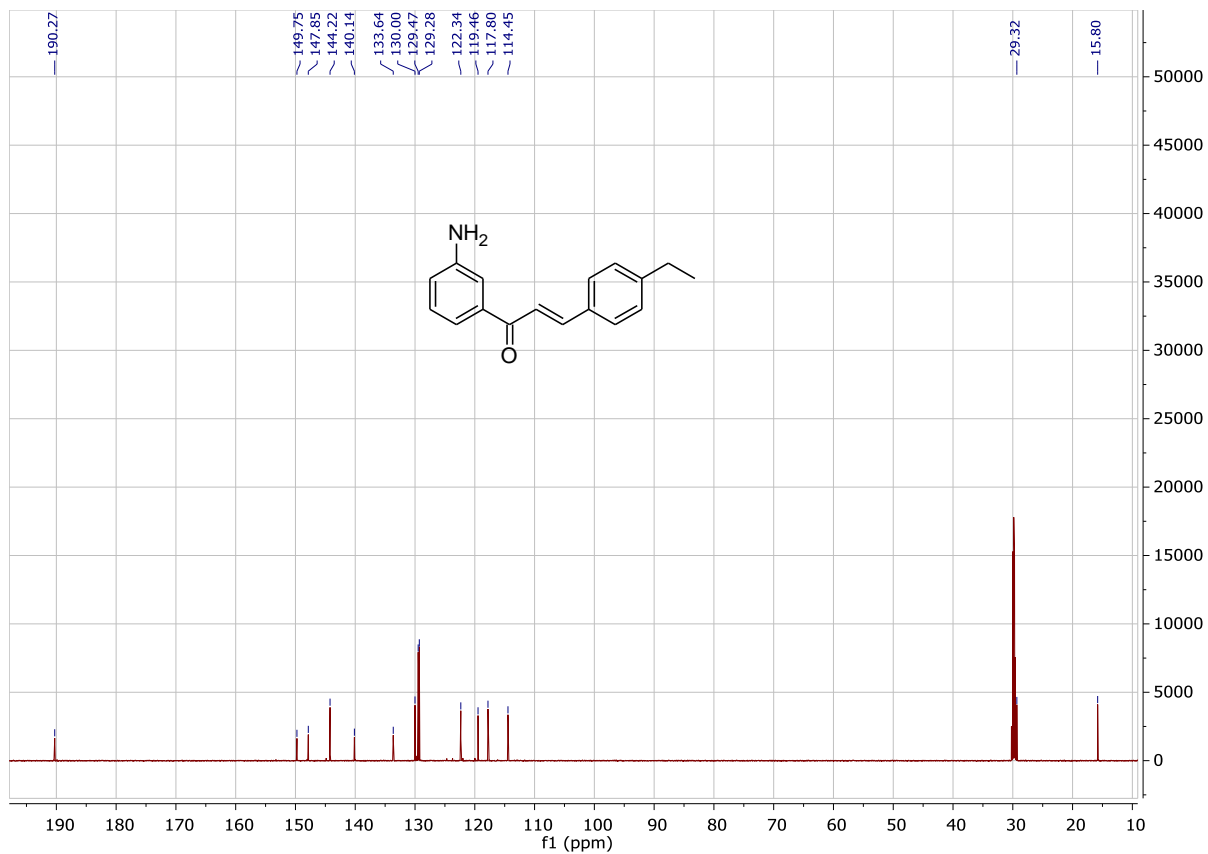


Figure S13. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 3'-amino-4-ethylchalcone (5)



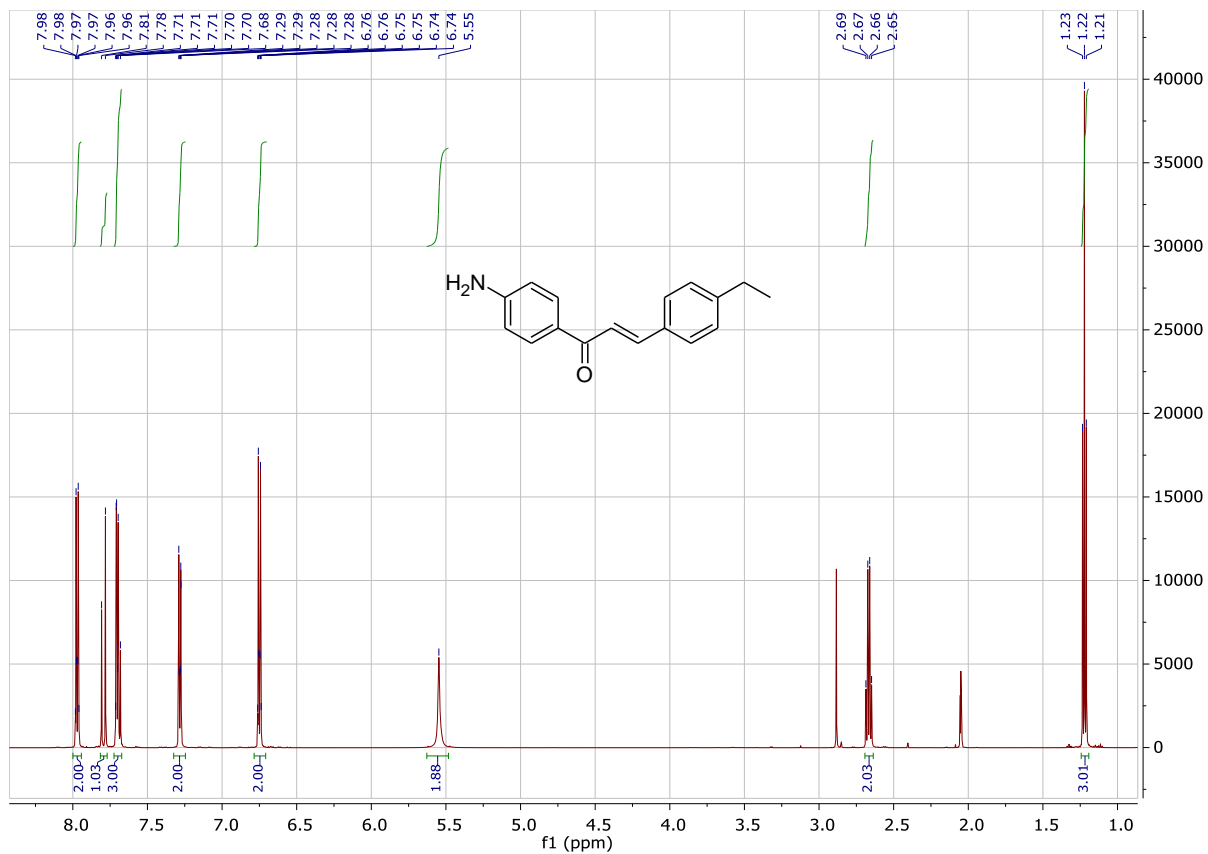


Figure S16. $^1\text{H-NMR}$ (600 MHz, acetone- d_6) spectrum of 4'-amino-4-ethylchalcone (6)

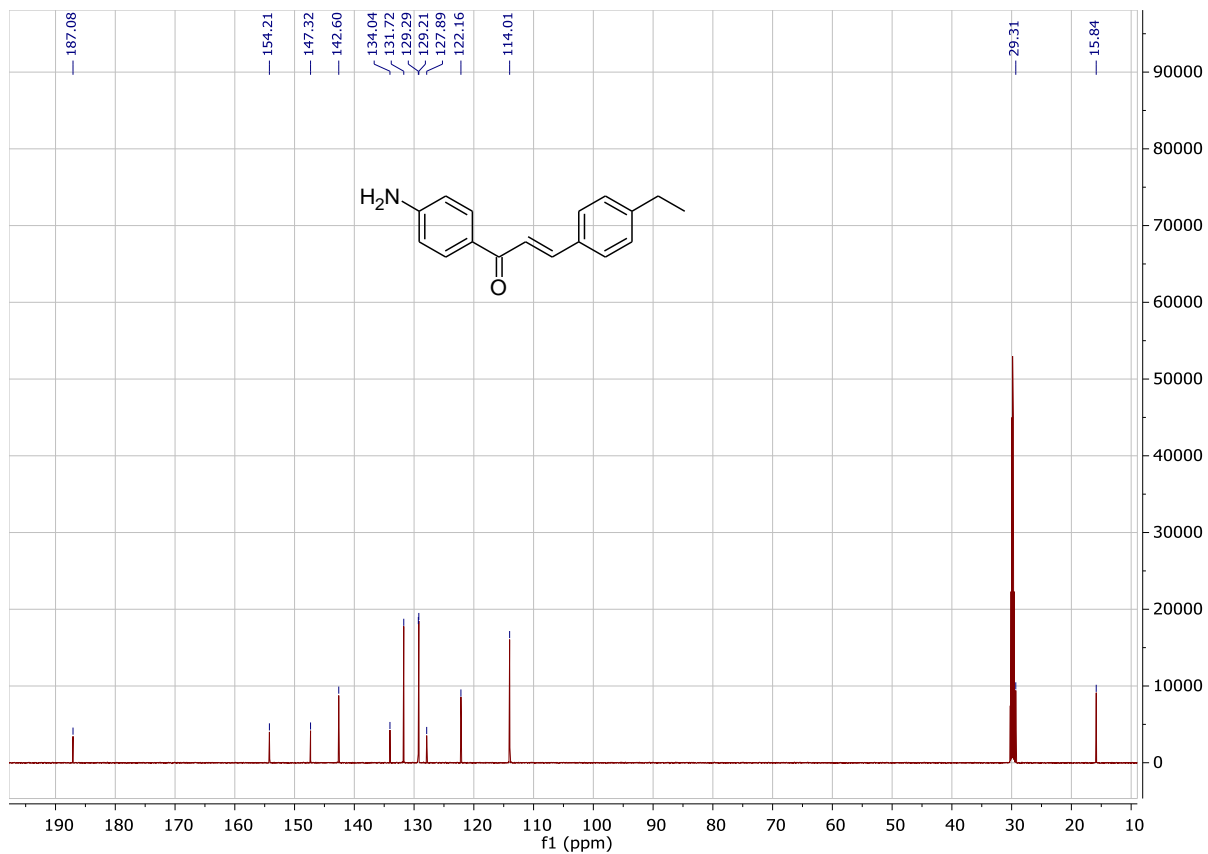


Figure S17. $^{13}\text{C-NMR}$ (150 MHz, acetone- d_6) spectrum of 4'-amino-4-ethylchalcone (6)

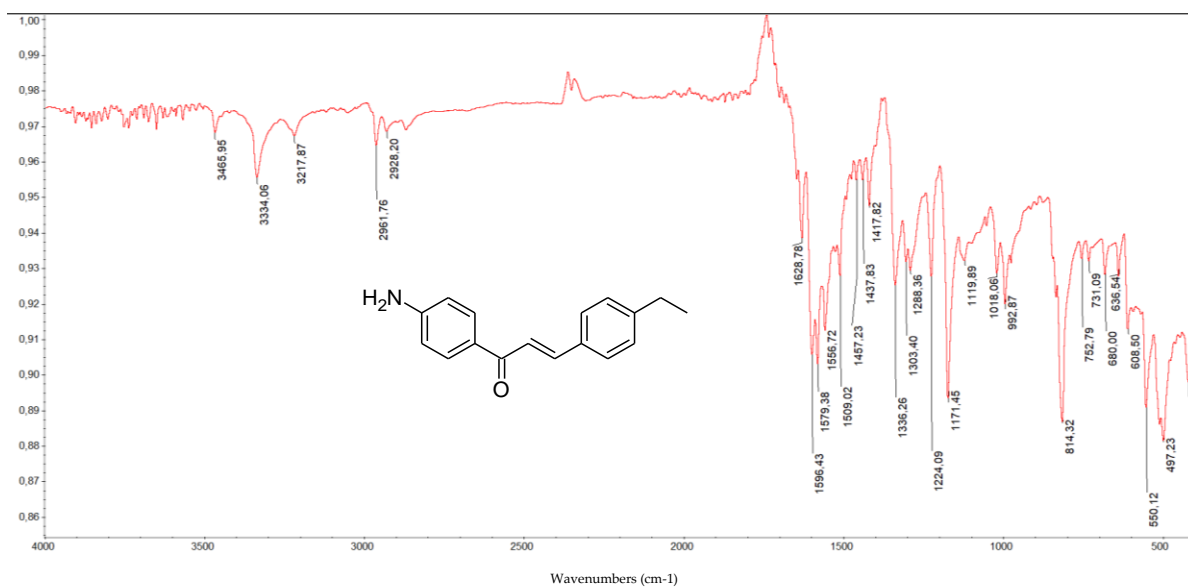


Figure S18. FTIR-ATR spectrum of 4'-amino-4-ethylchalcone (6)

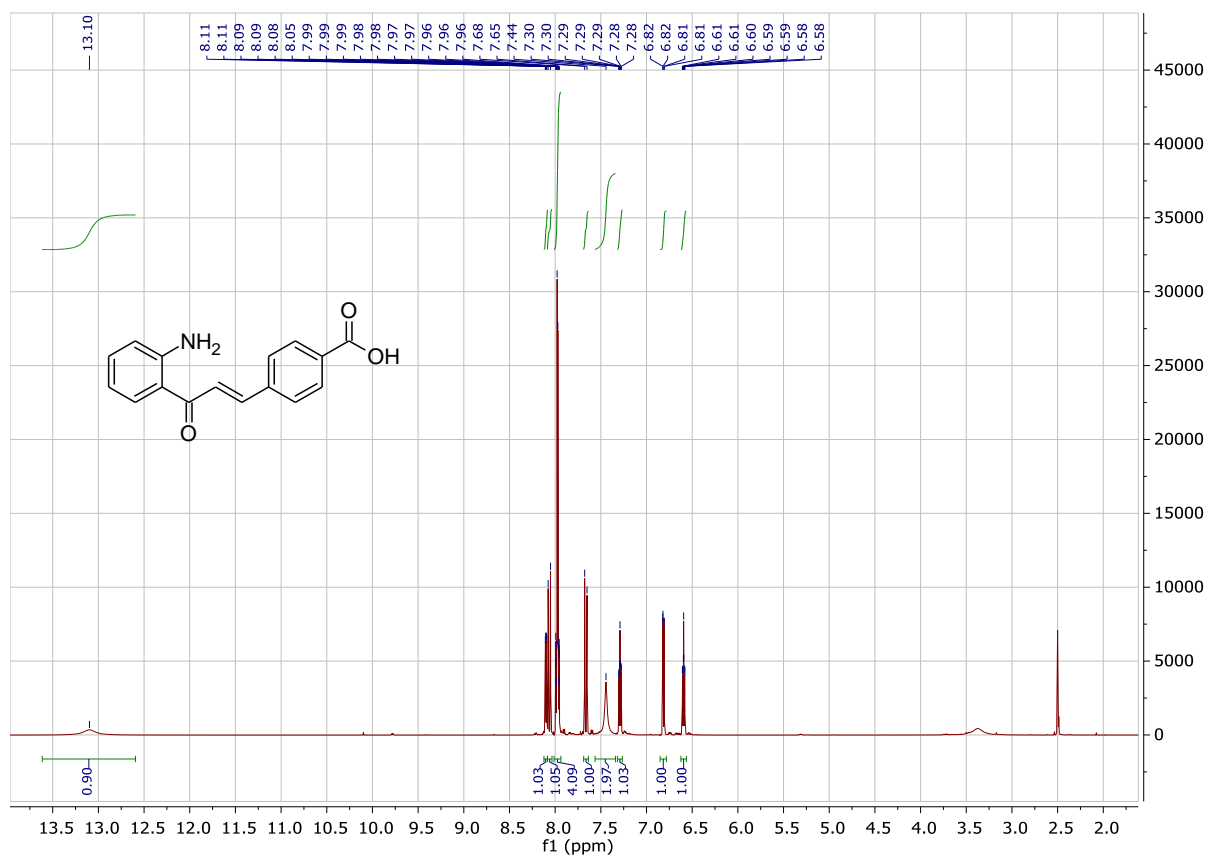


Figure S19. ¹H-NMR (600 MHz, DMSO-*d*₆) spectrum of 2'-amino-4-carboxychalcone (7)

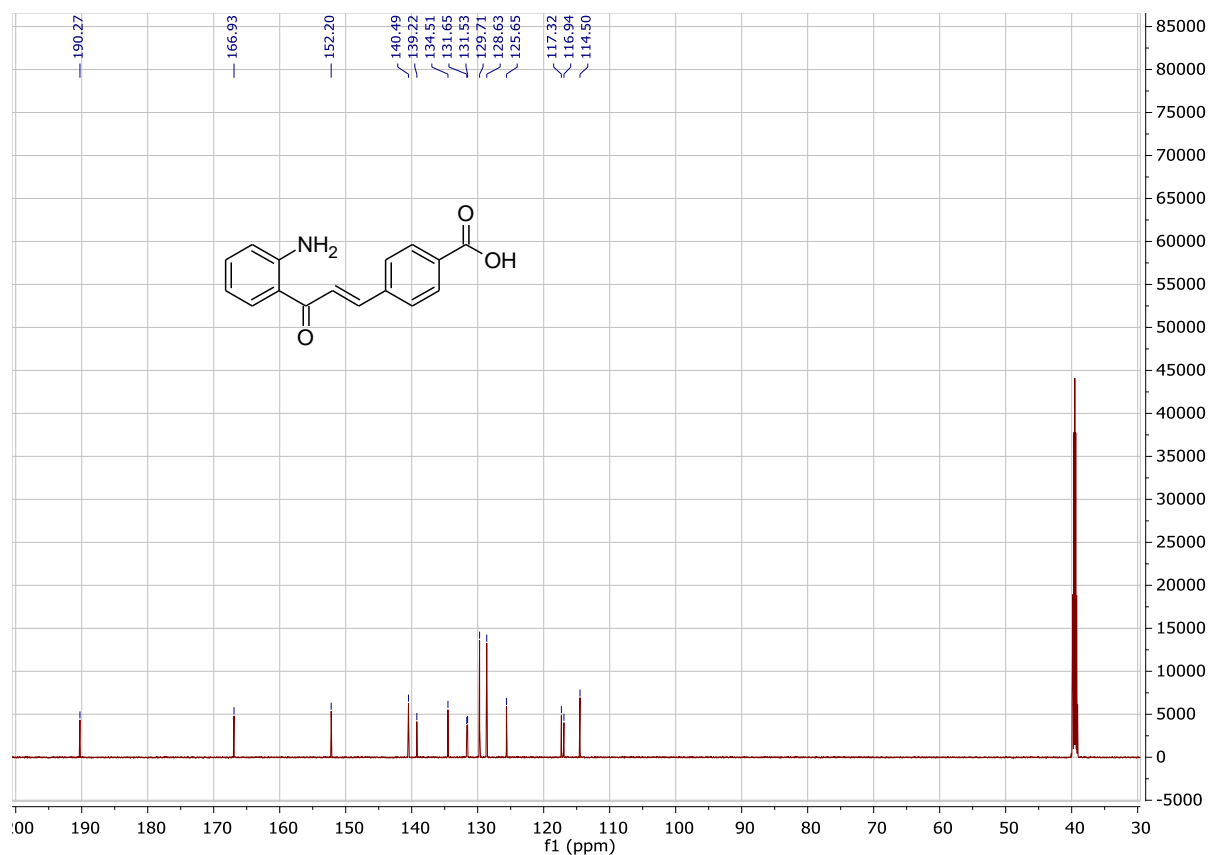


Figure S20. ^{13}C -NMR (150 MHz, $\text{DMSO-}d_6$) spectrum of 2'-amino-4-carboxychalcone (7)

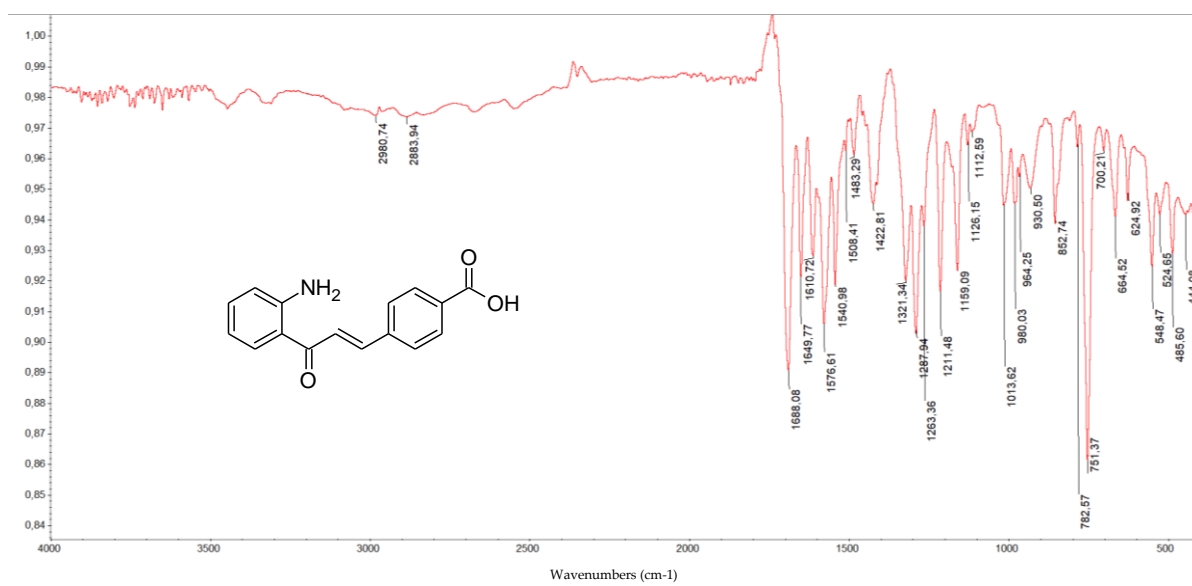


Figure S21. FTIR-ATR spectrum of 2'-amino-4-carboxychalcone (7)

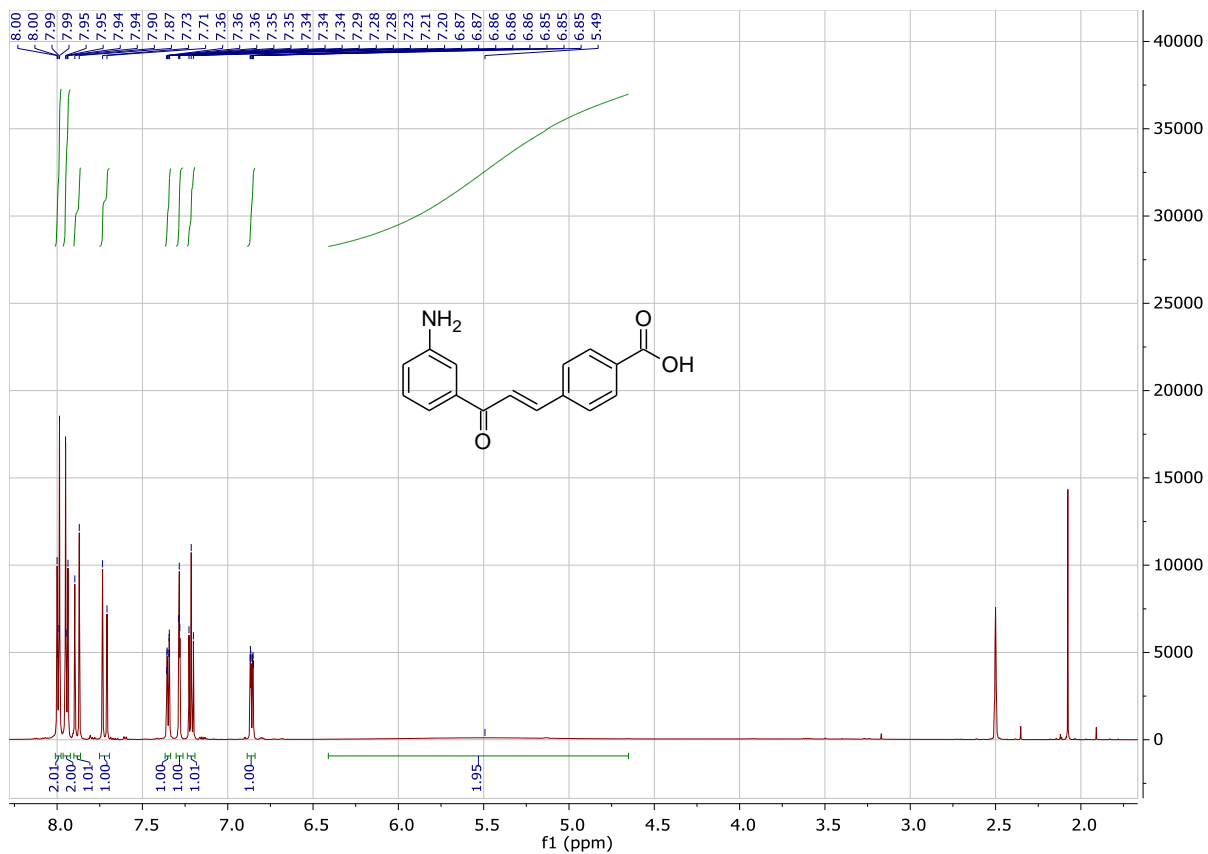


Figure S22. $^1\text{H-NMR}$ (600 MHz, $\text{DMSO-}d_6$) spectrum of 3'-amino-4-carboxychalcone (8)

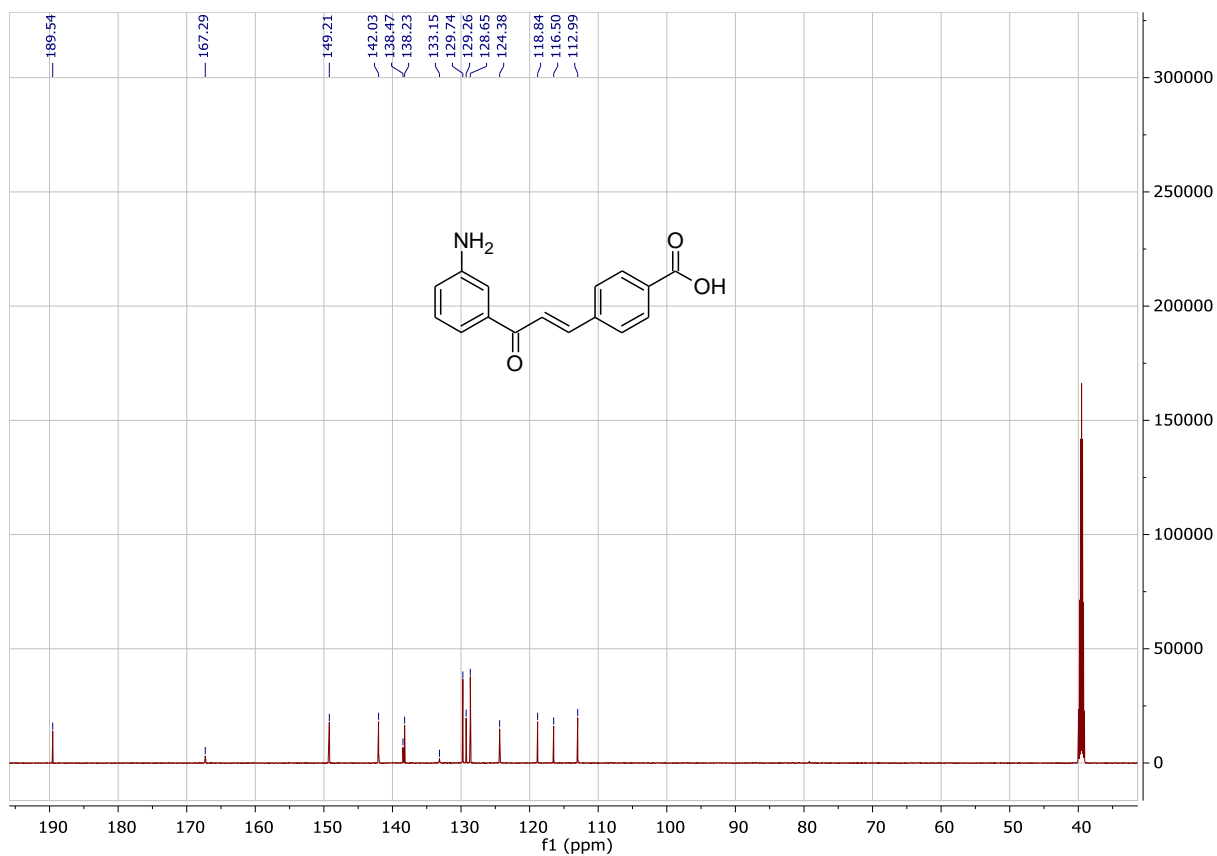


Figure S23. $^{13}\text{C-NMR}$ (150 MHz, $\text{DMSO-}d_6$) spectrum of 3'-amino-4-carboxychalcone (8)

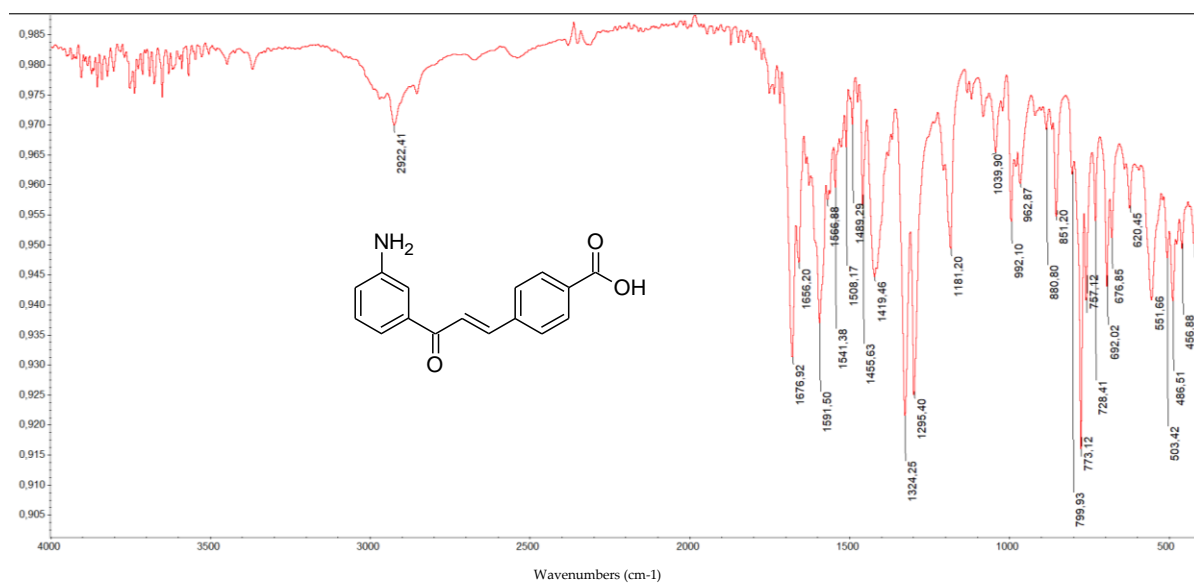


Figure S24. FTIR-ATR spectrum of 3'-amino-4-carboxychalcone (8)

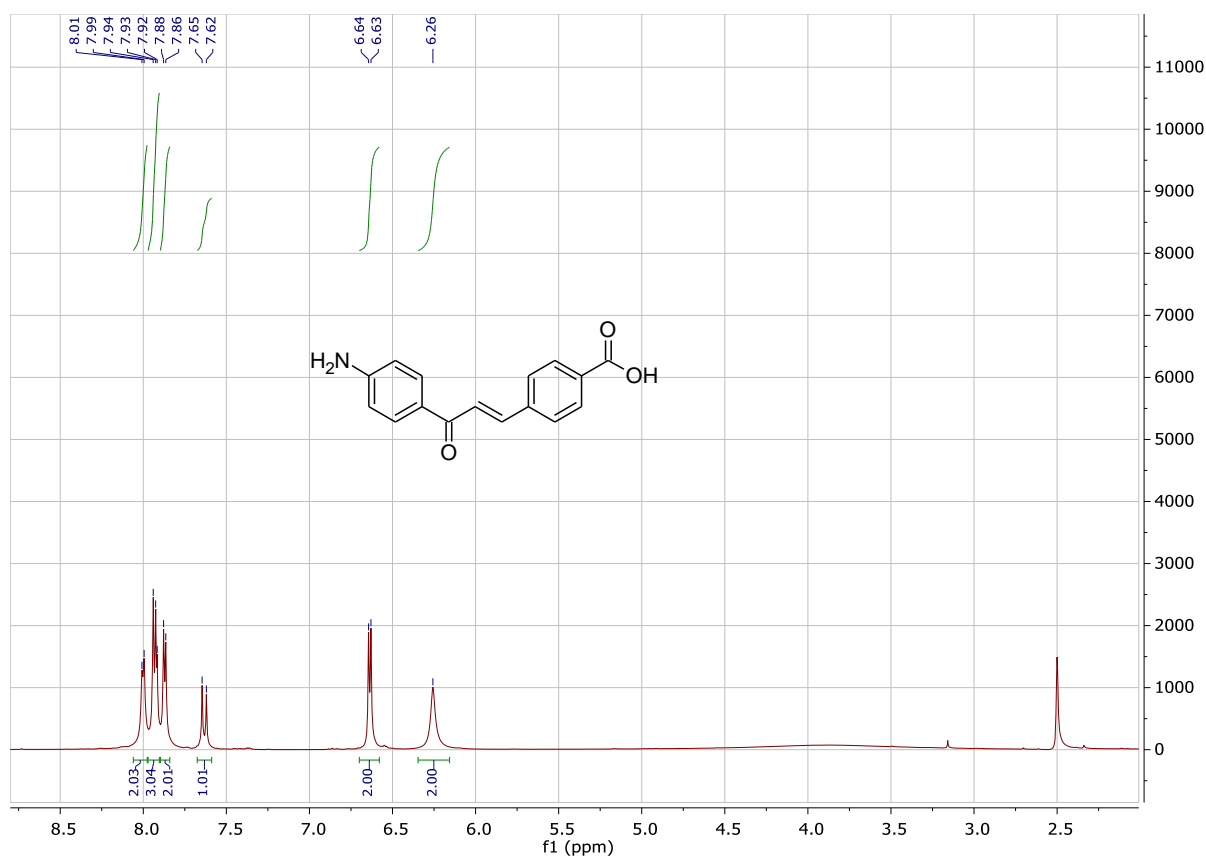


Figure S25. ¹H-NMR (600 MHz, DMSO-*d*₆) spectrum of 4'-amino-4-carboxychalcone (9)

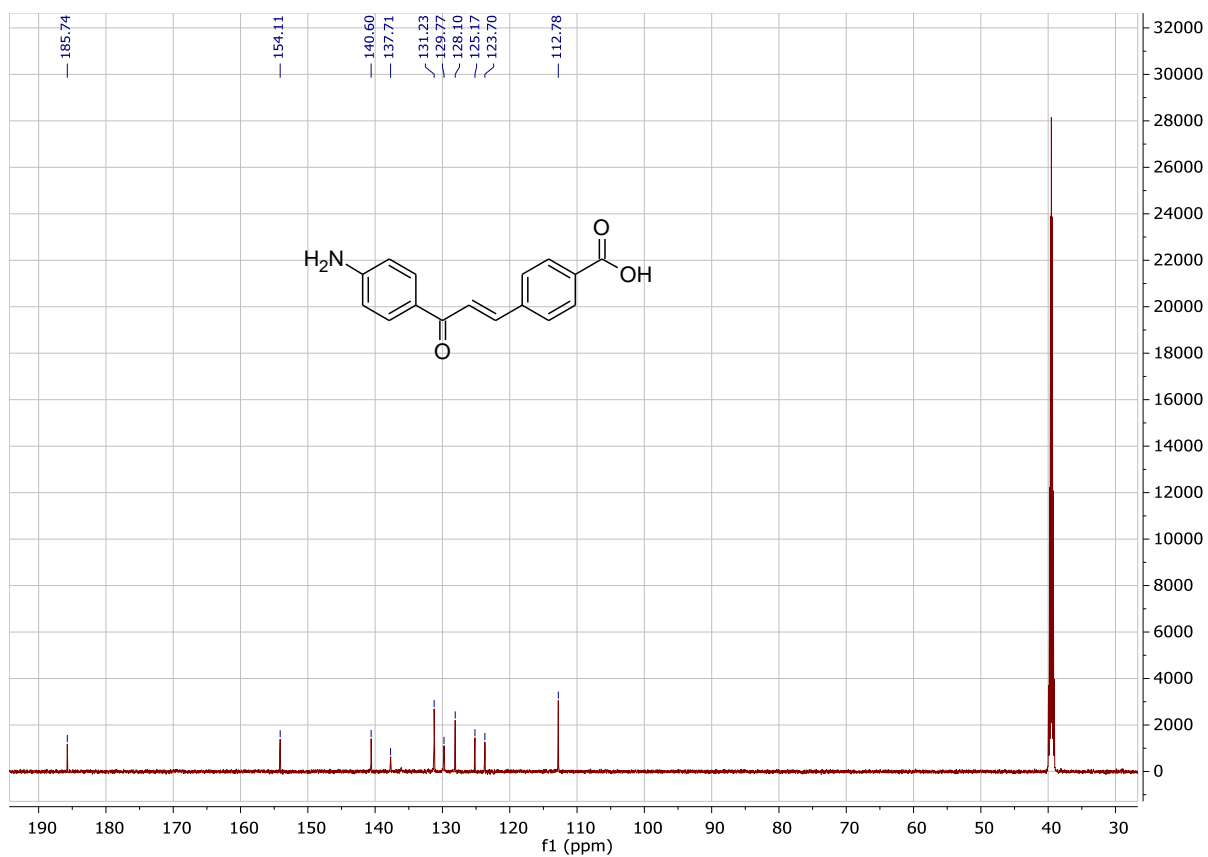


Figure S26. ¹³C-NMR (150 MHz, DMSO-*d*₆) spectrum of 4'-amino-4-carboxychalcone (9)

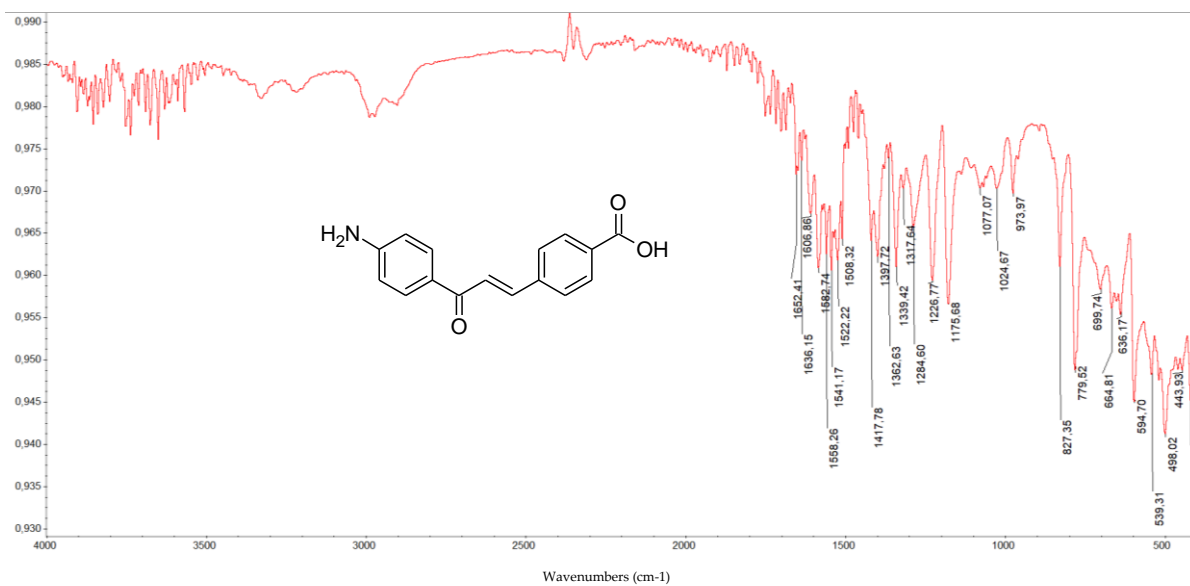


Figure S27. FTIR-ATR spectrum of 4'-amino-4-carboxychalcone (9)

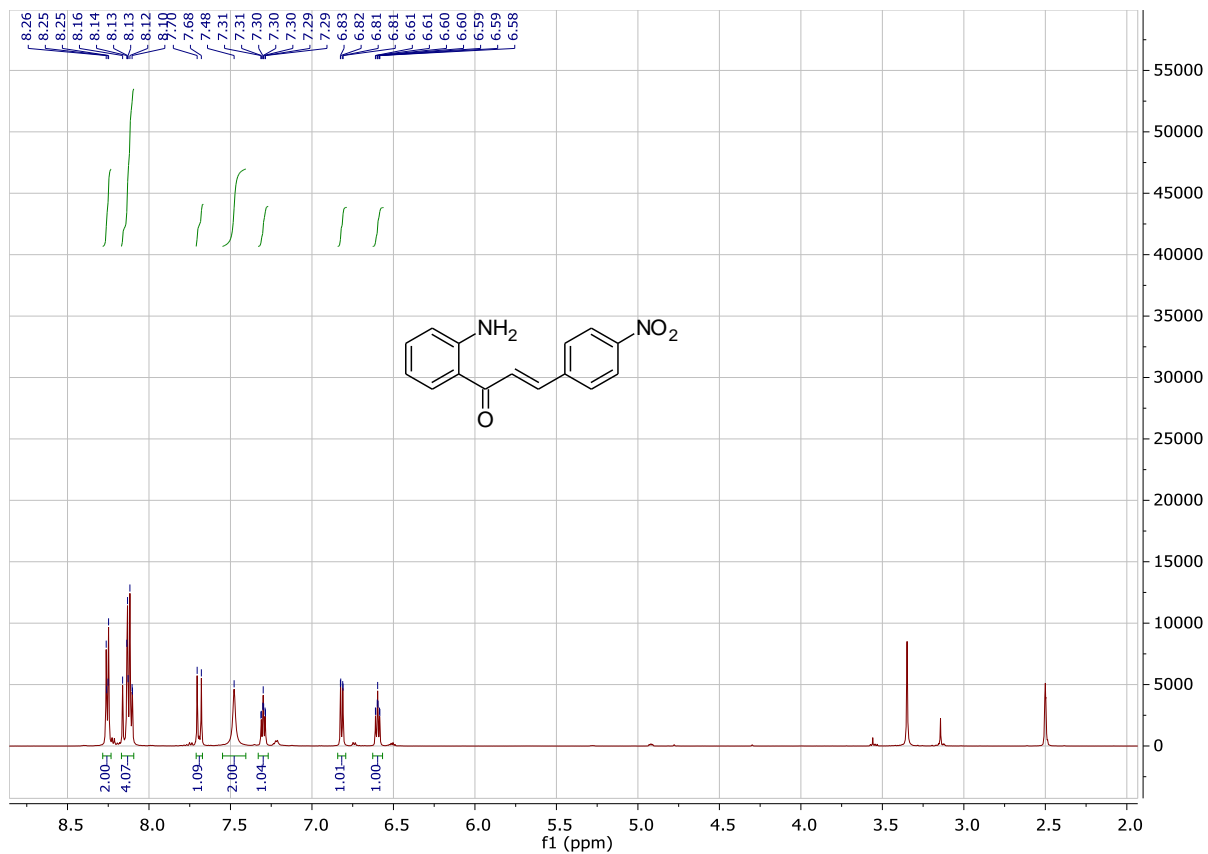


Figure S28. $^1\text{H-NMR}$ (600 MHz, $\text{DMSO-}d_6$) spectrum of 2'-amino-4-nitrochalcone (10)

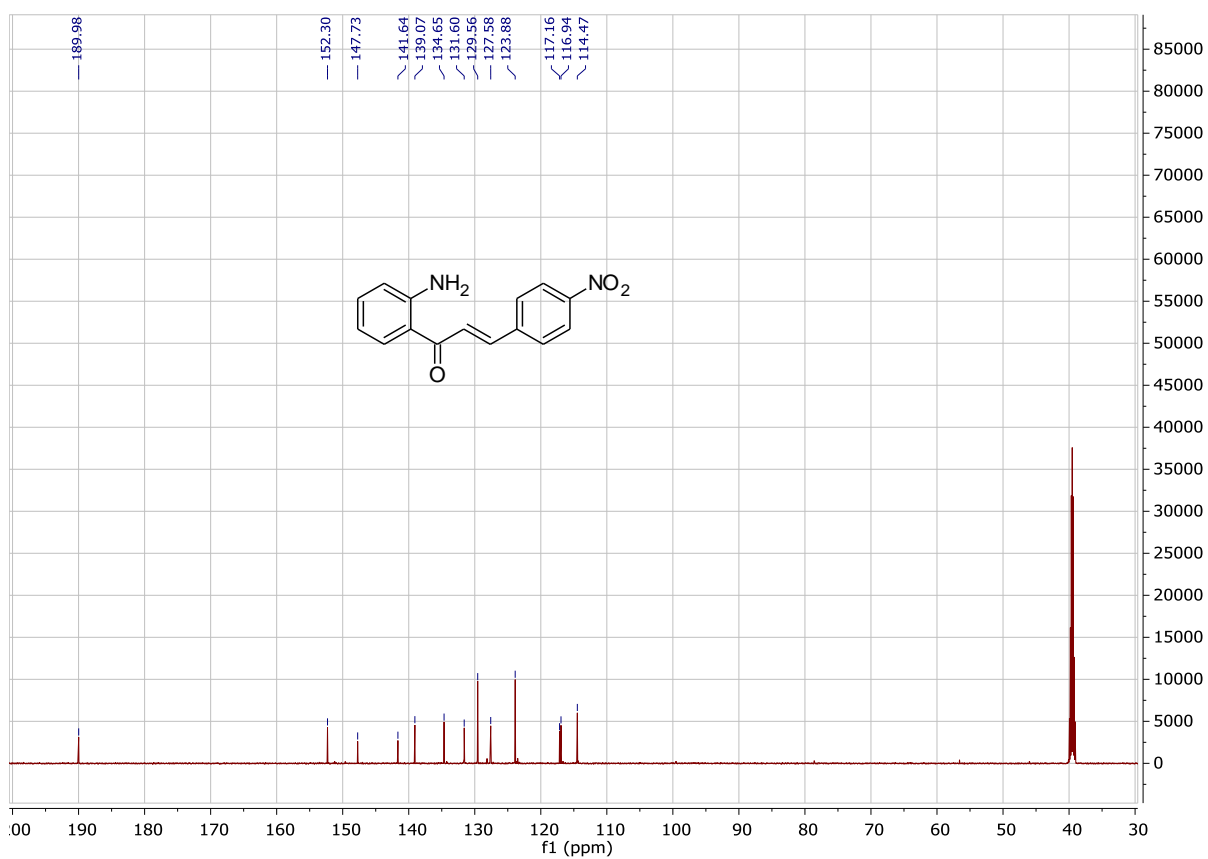


Figure S29. $^{13}\text{C-NMR}$ (150 MHz, $\text{DMSO-}d_6$) spectrum of 2'-amino-4-nitrochalcone (10)

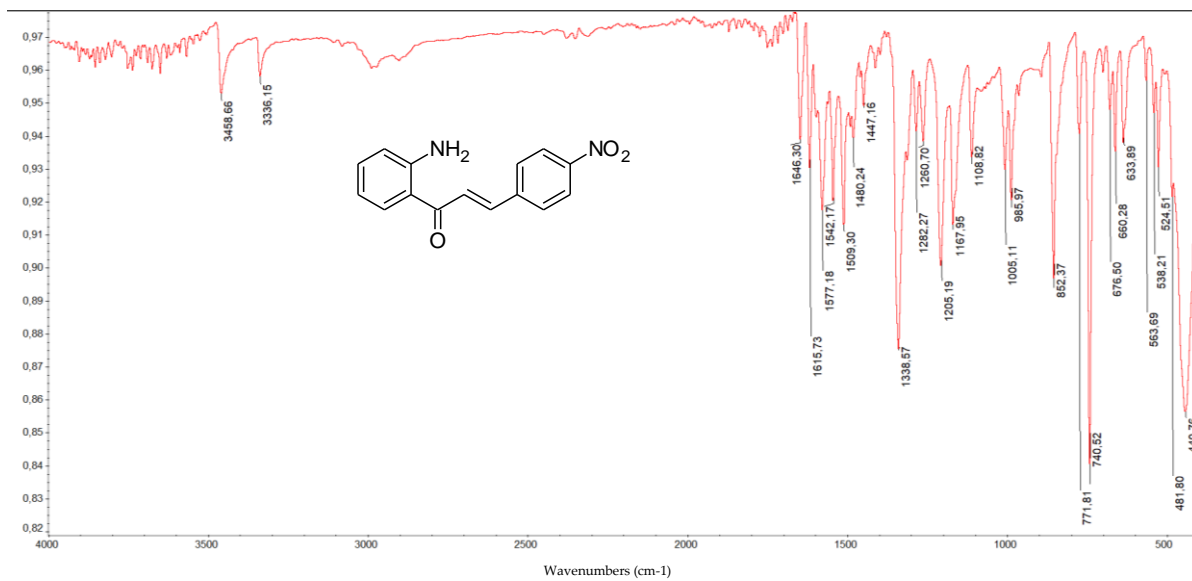


Figure S30. FTIR-ATR spectrum of 2'-amino-4-nitrochalcone (10)

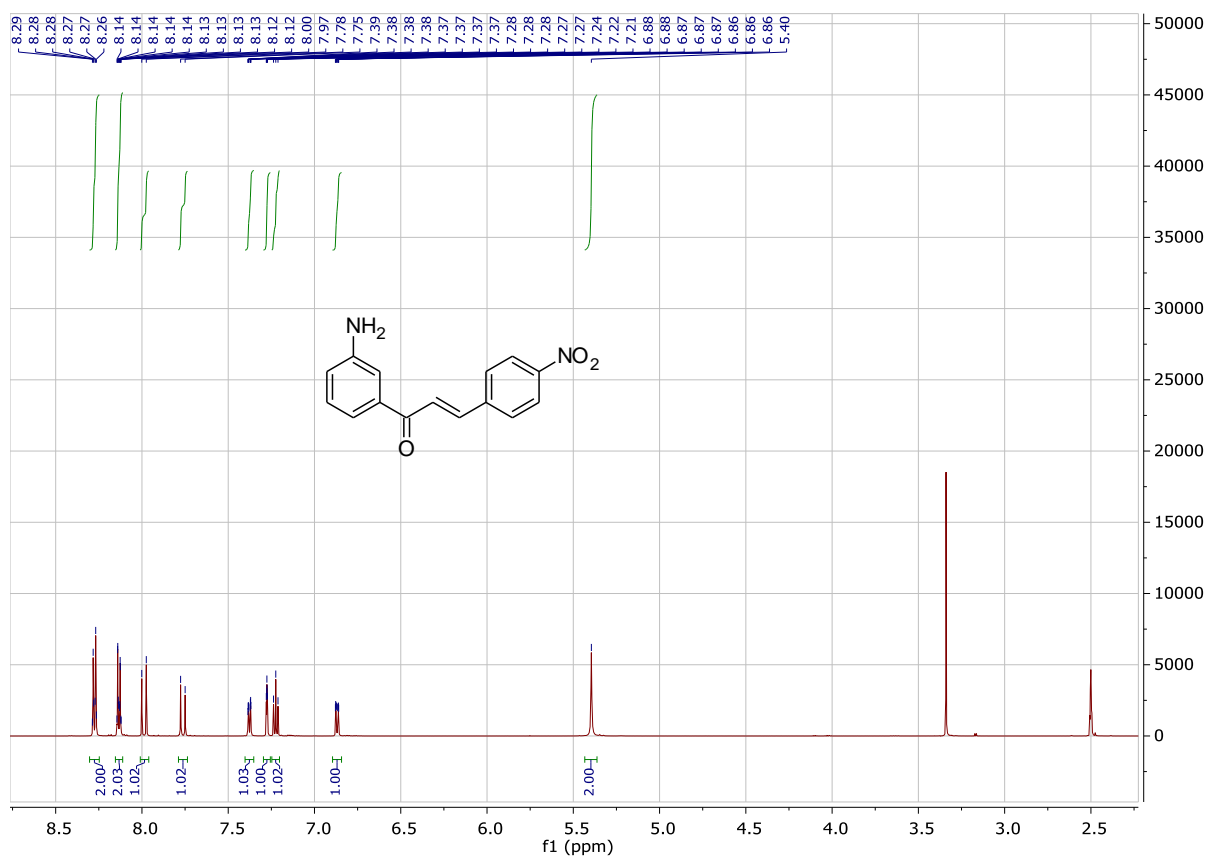


Figure S31. ¹H-NMR (600 MHz, DMSO-*d*₆) spectrum of 3'-amino-4-nitrochalcone (11)

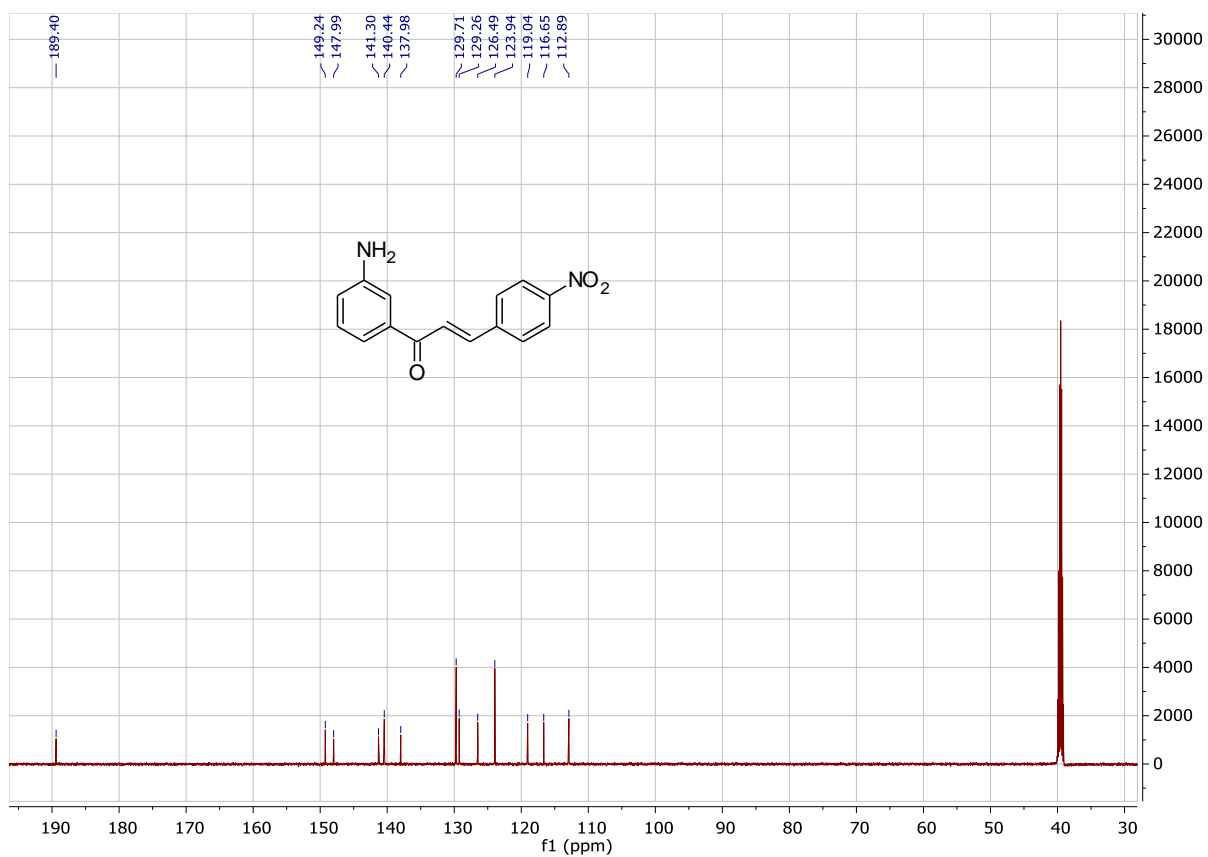


Figure S32. $^{13}\text{C-NMR}$ (150 MHz, $\text{DMSO-}d_6$) spectrum of 3'-amino-4-nitrochalcone (11)

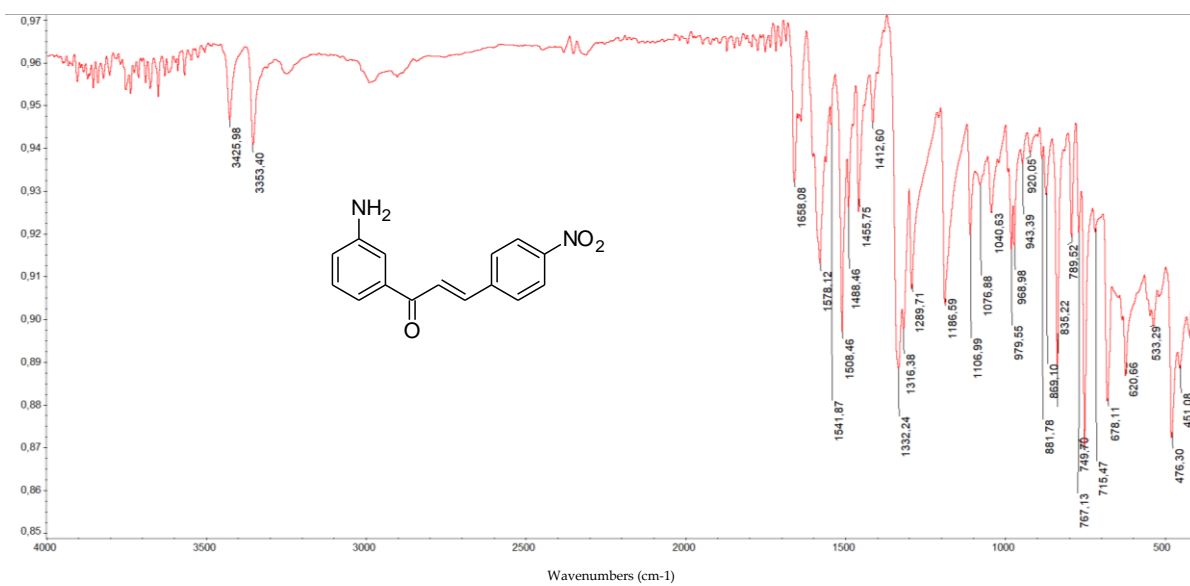


Figure S33. FTIR-ATR spectrum of 3'-amino-4-nitrochalcone (11)

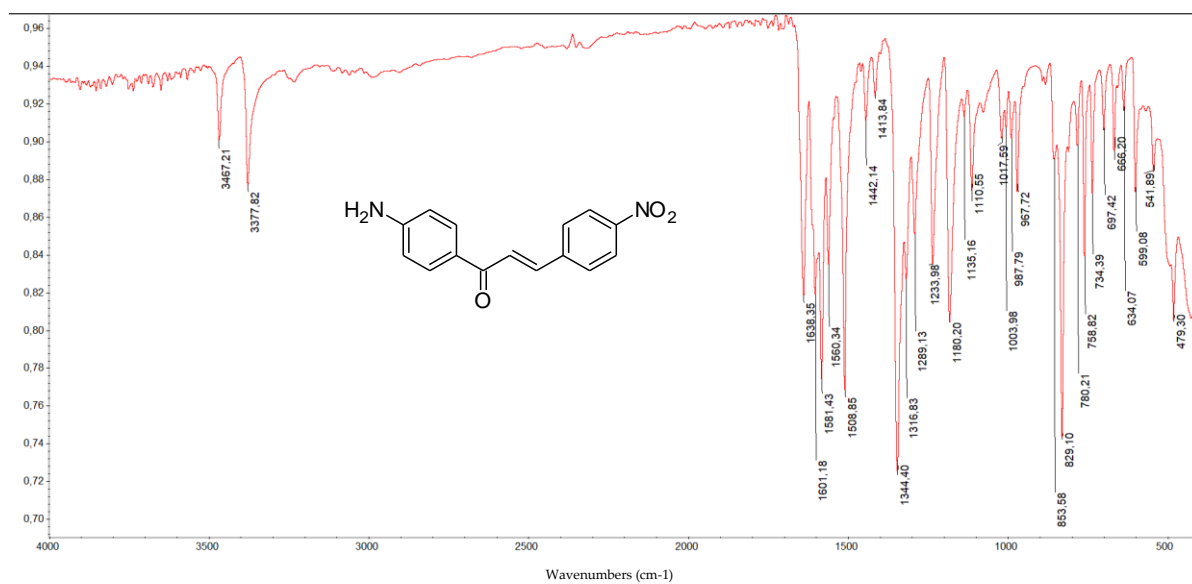


Figure S36. FTIR-ATR spectrum of 4'-amino-4-nitrochalcone (12)

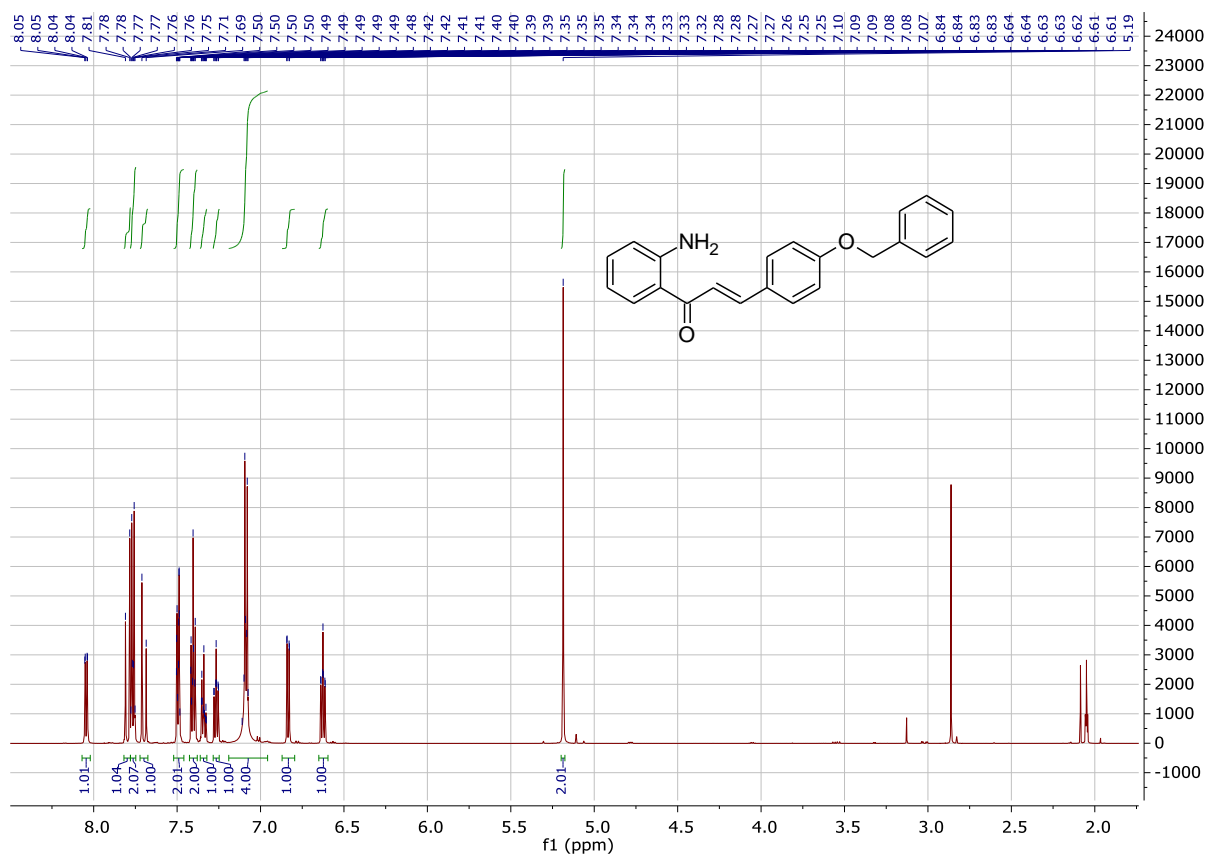


Figure S37. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 2'-amino-4-benzyloxychalcone (13)

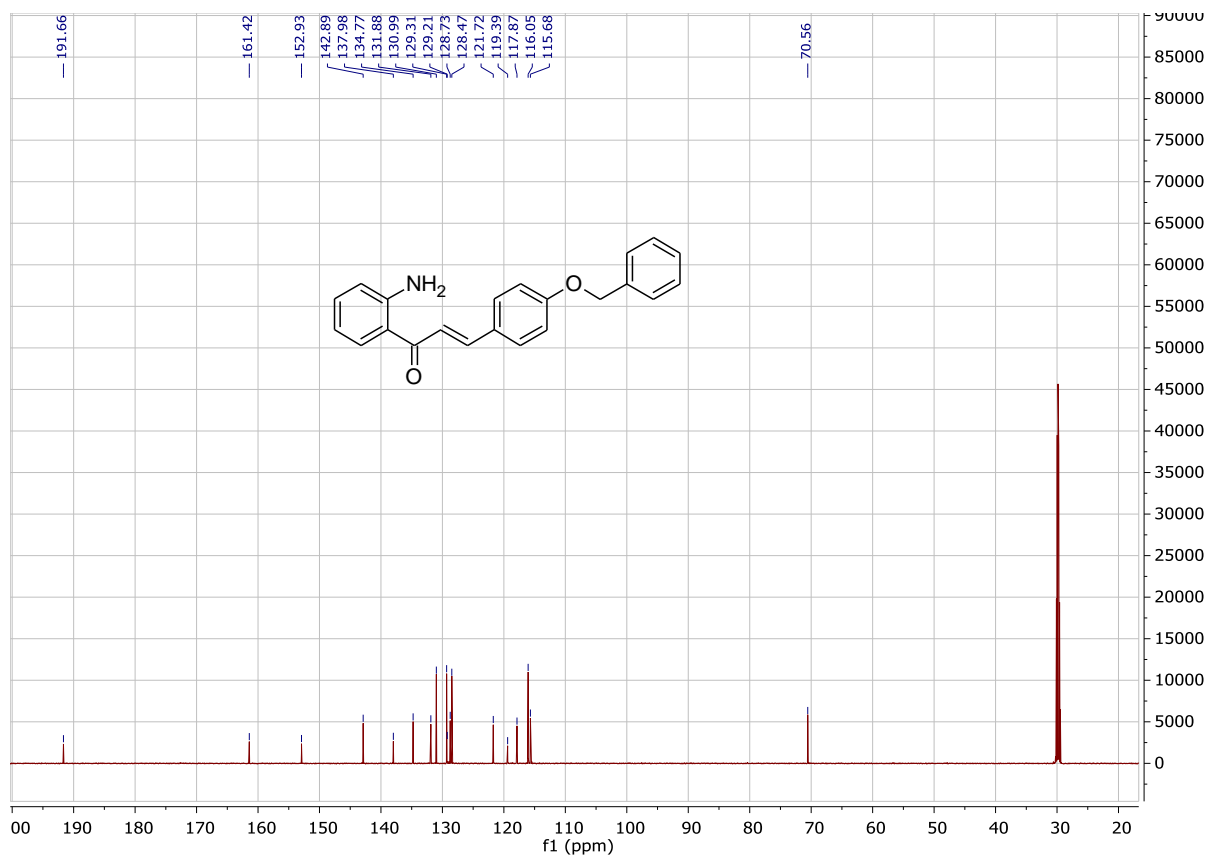


Figure S38. ^{13}C -NMR (150 MHz, acetone- d_6) spectrum of 2'-amino-4-benzyloxychalcone (13)

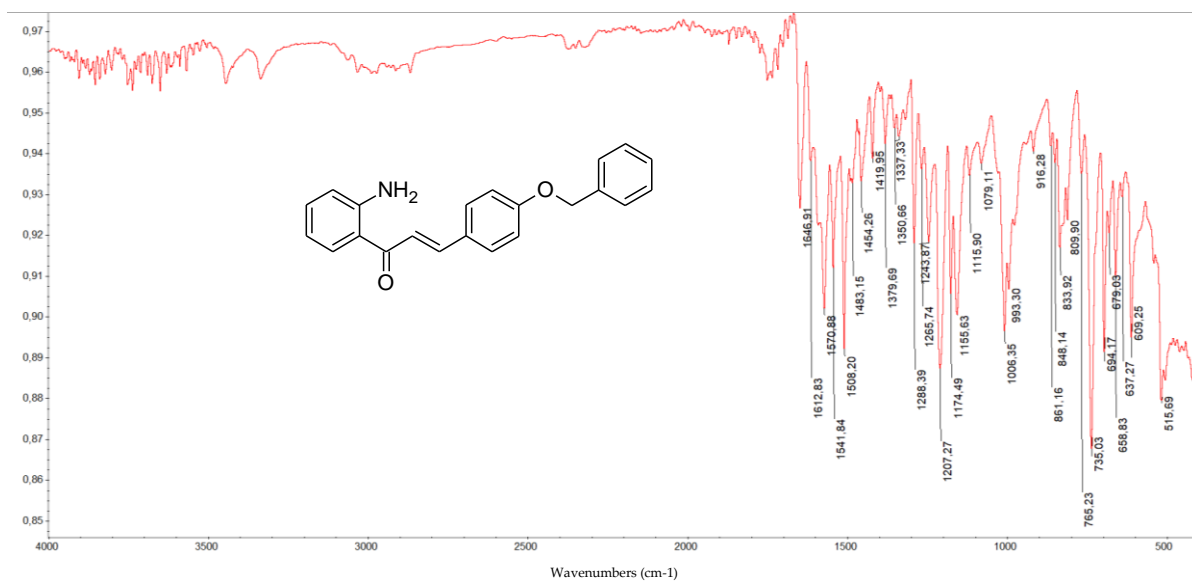


Figure S39. FTIR-ATR spectrum of 2'-amino-4-benzyloxychalcone (13)

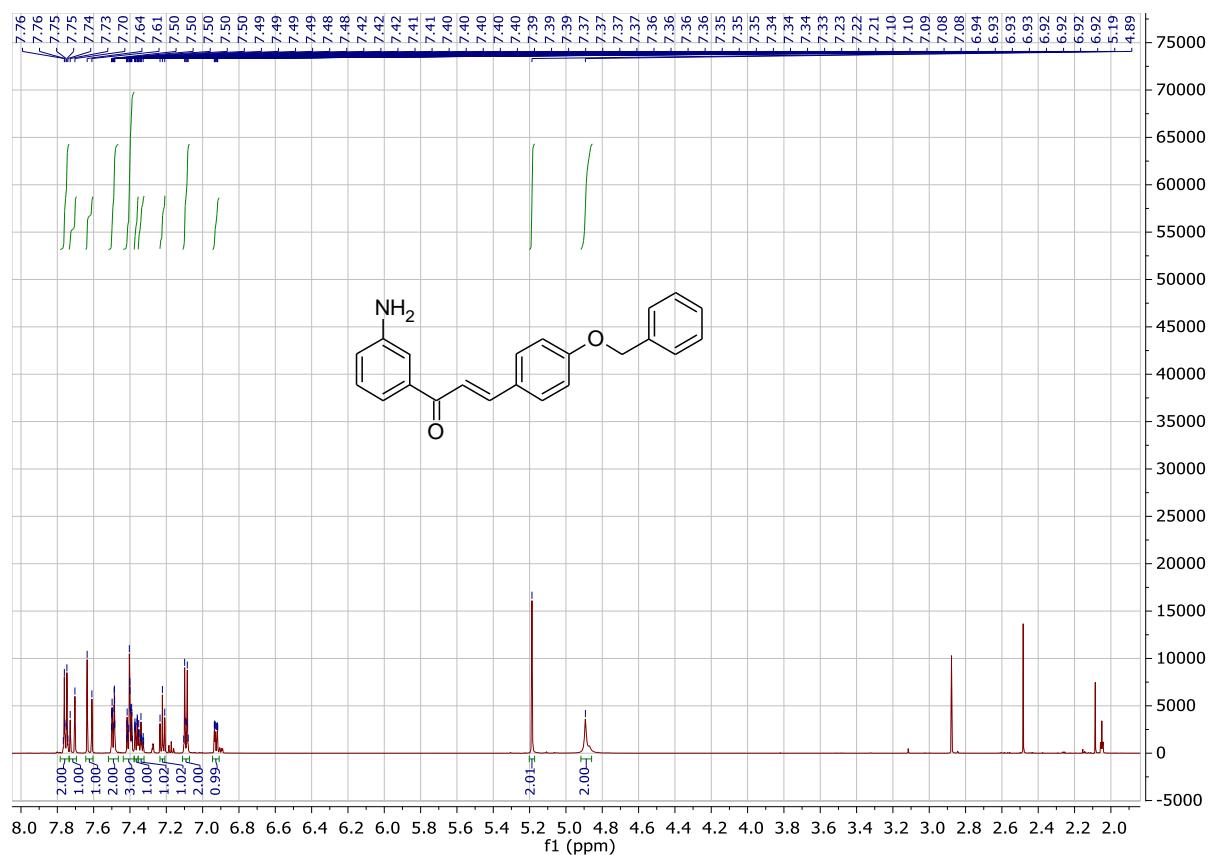


Figure S40. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 3'-amino-4-benzyloxychalcone (14)

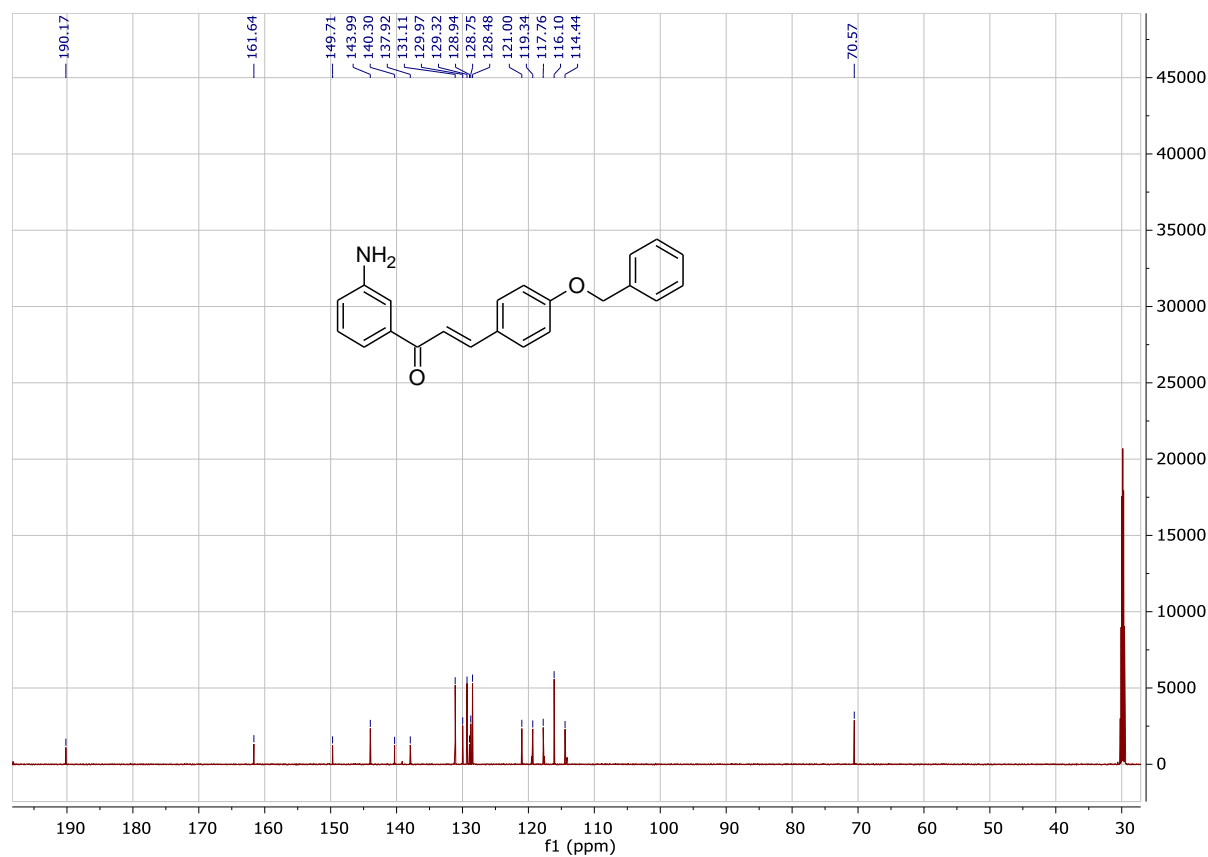


Figure S41. ¹³C-NMR (150 MHz, acetone-*d*₆) spectrum of 3'-amino-4-benzyloxychalcone (14)

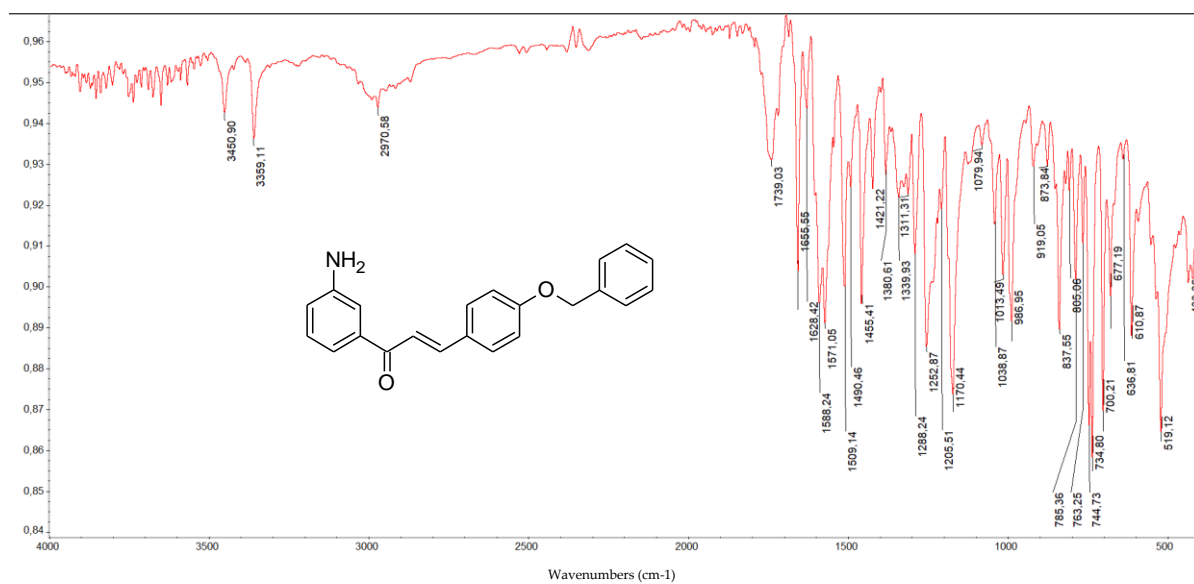


Figure S42. FTIR-ATR spectrum of 3'-amino-4-benzoyloxychalcone (14)

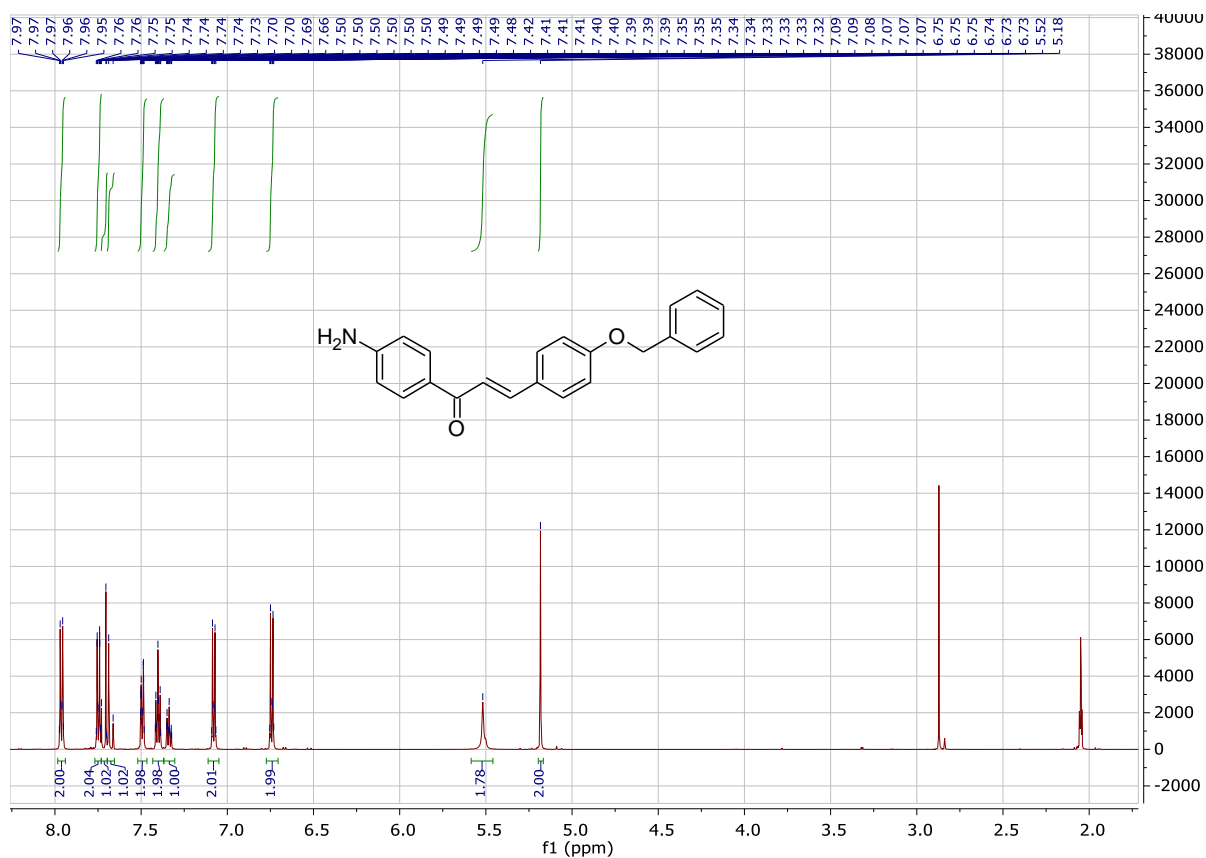


Figure S43. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 4'-amino-4-benzoyloxychalcone (15)

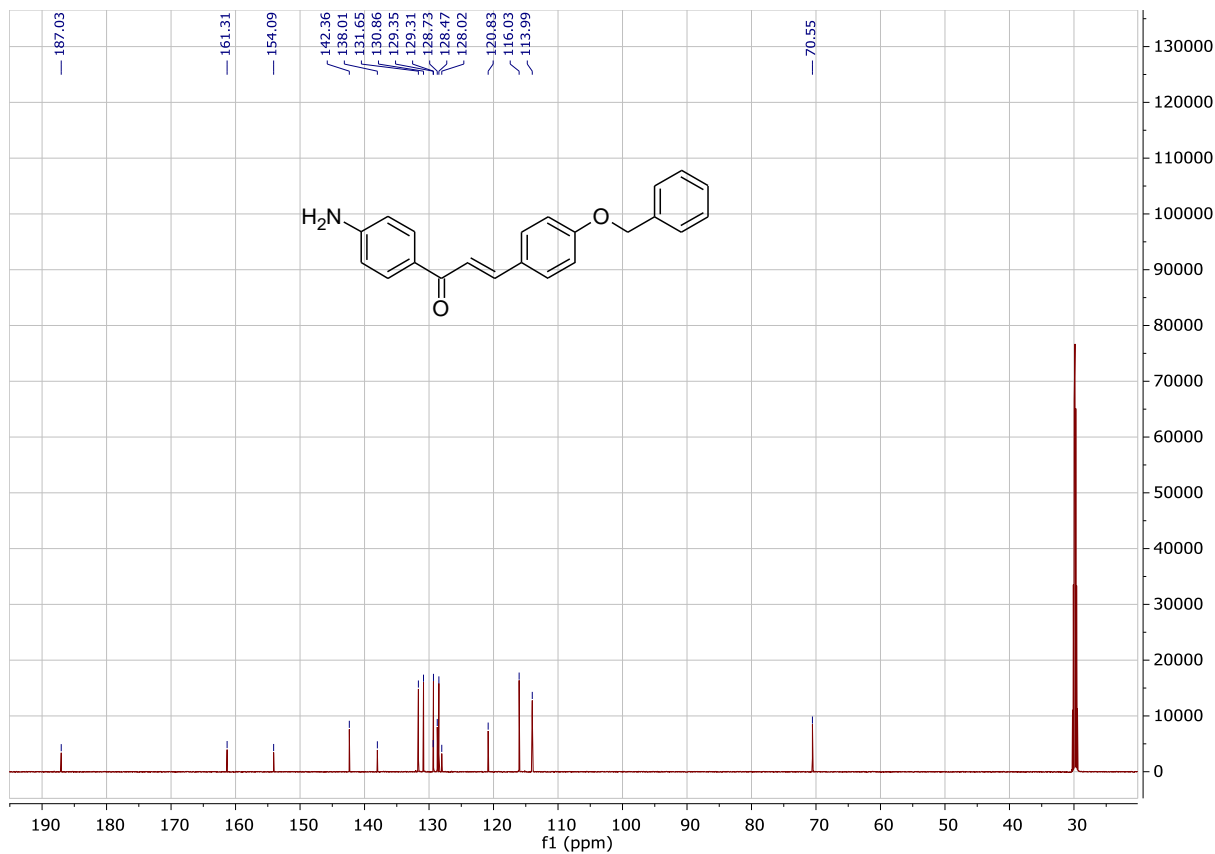


Figure S44. ^{13}C -NMR (150 MHz, acetone- d_6) spectrum of 4'-amino-4-benzyloxychalcone (15)

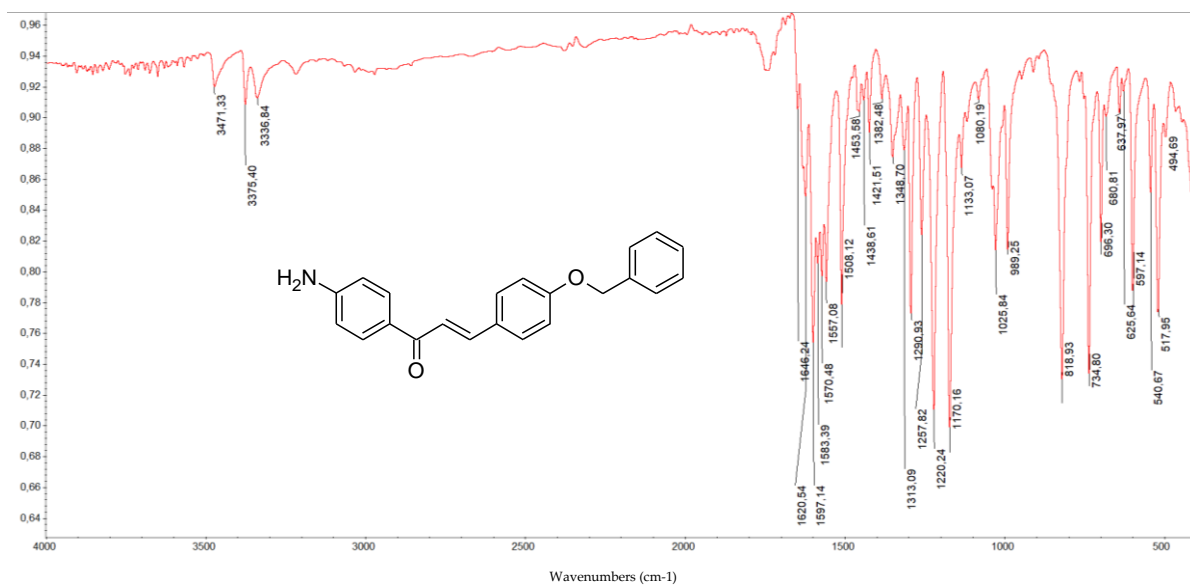


Figure S45. FTIR-ATR spectrum of 4'-amino-4-benzyloxychalcone (15)

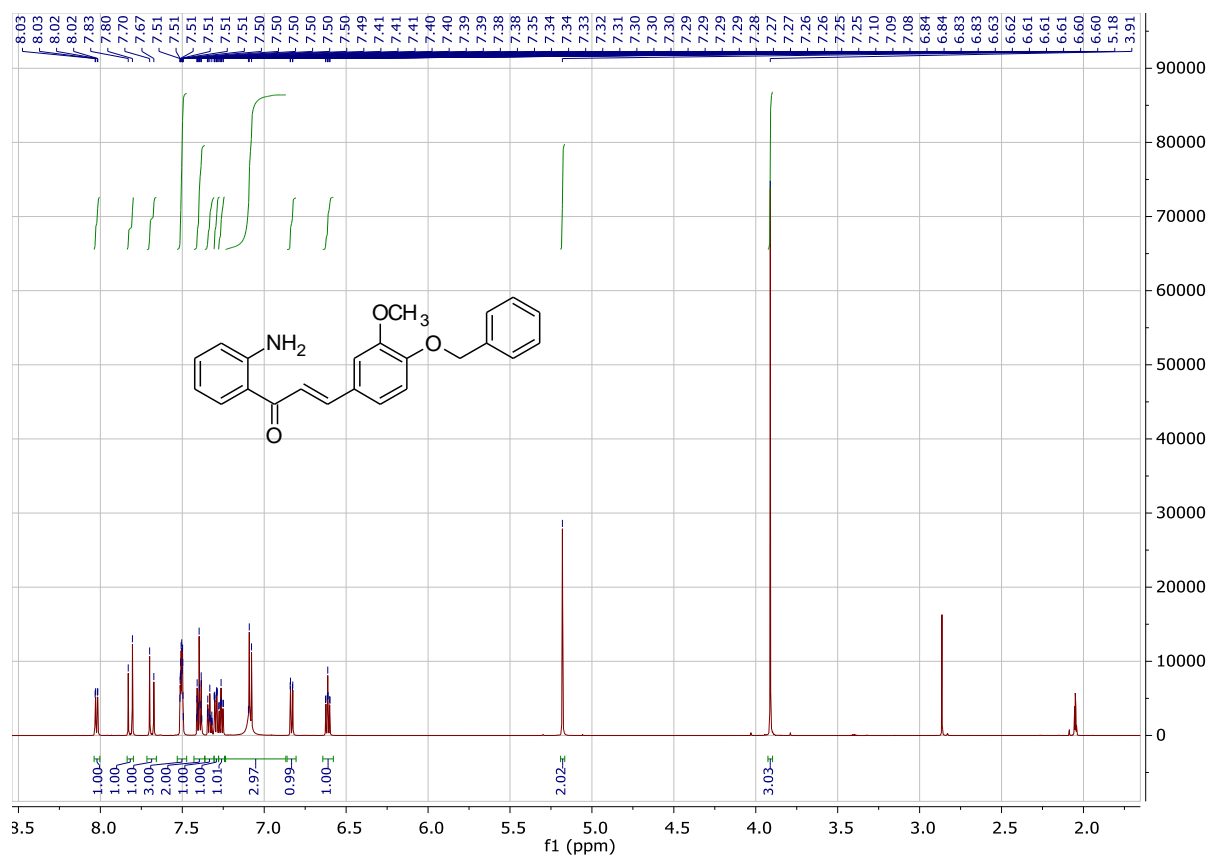


Figure S46. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 2'-amino-4-benzyloxy-3-methoxychalcone (16)

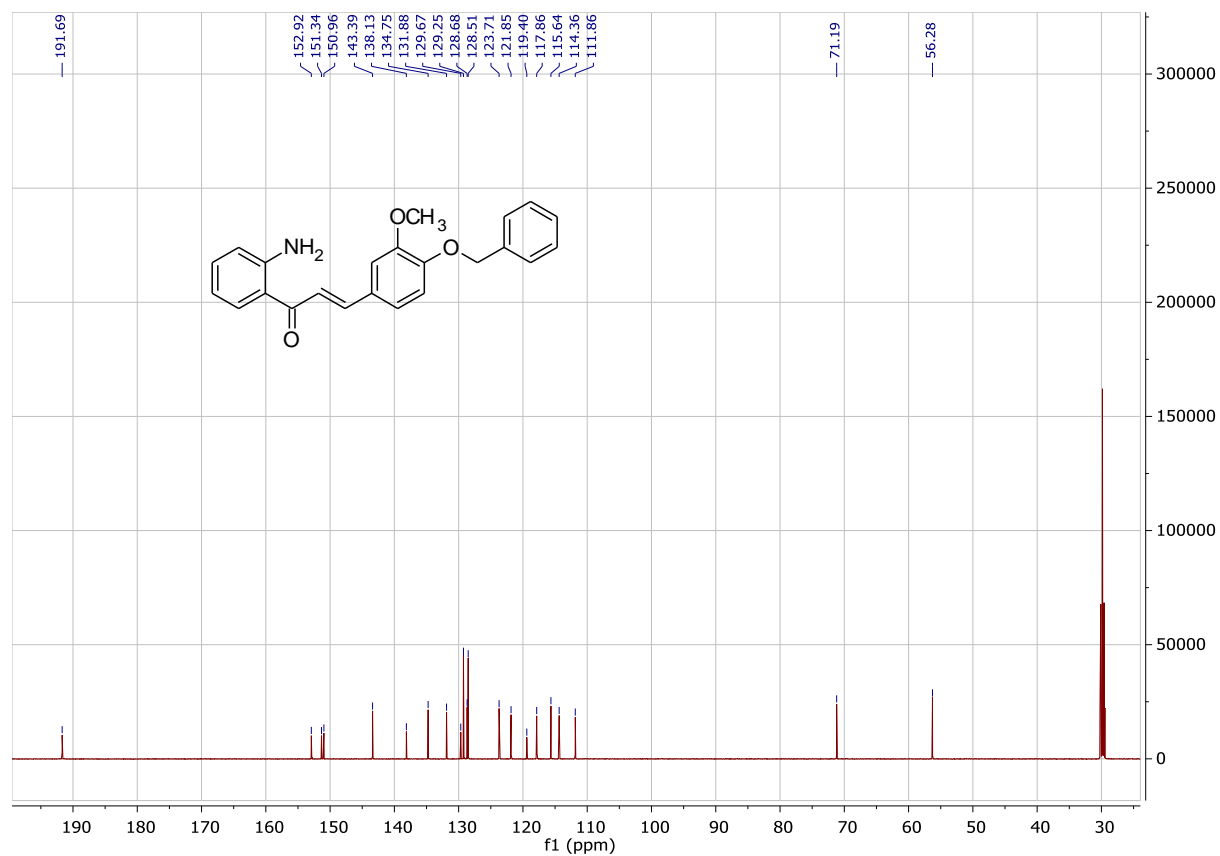


Figure S47. ¹³C-NMR (150 MHz, acetone-*d*₆) spectrum of 2'-amino-4-benzyloxy-3-methoxychalcone (16)

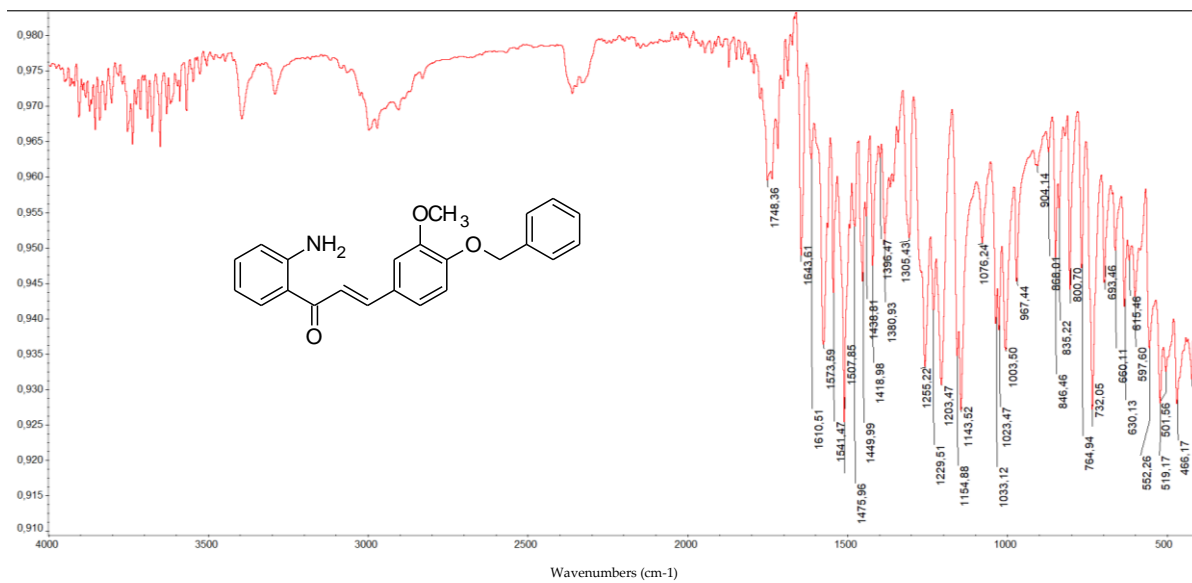


Figure S48. FTIR-ATR spectrum of 2'-amino-4-benzyloxy-3-methoxychalcone (16)

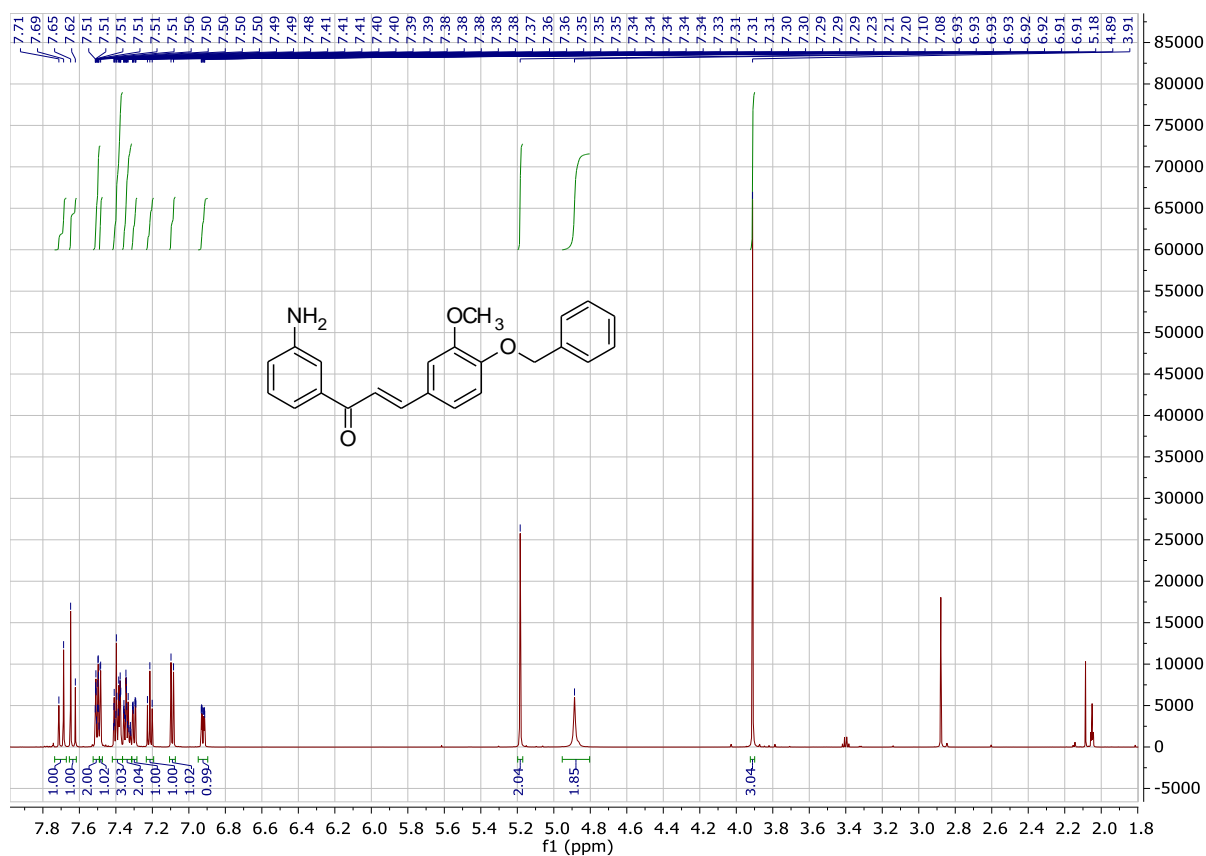


Figure S49. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 3'-amino-4-benzyloxy-3-methoxychalcone (17)

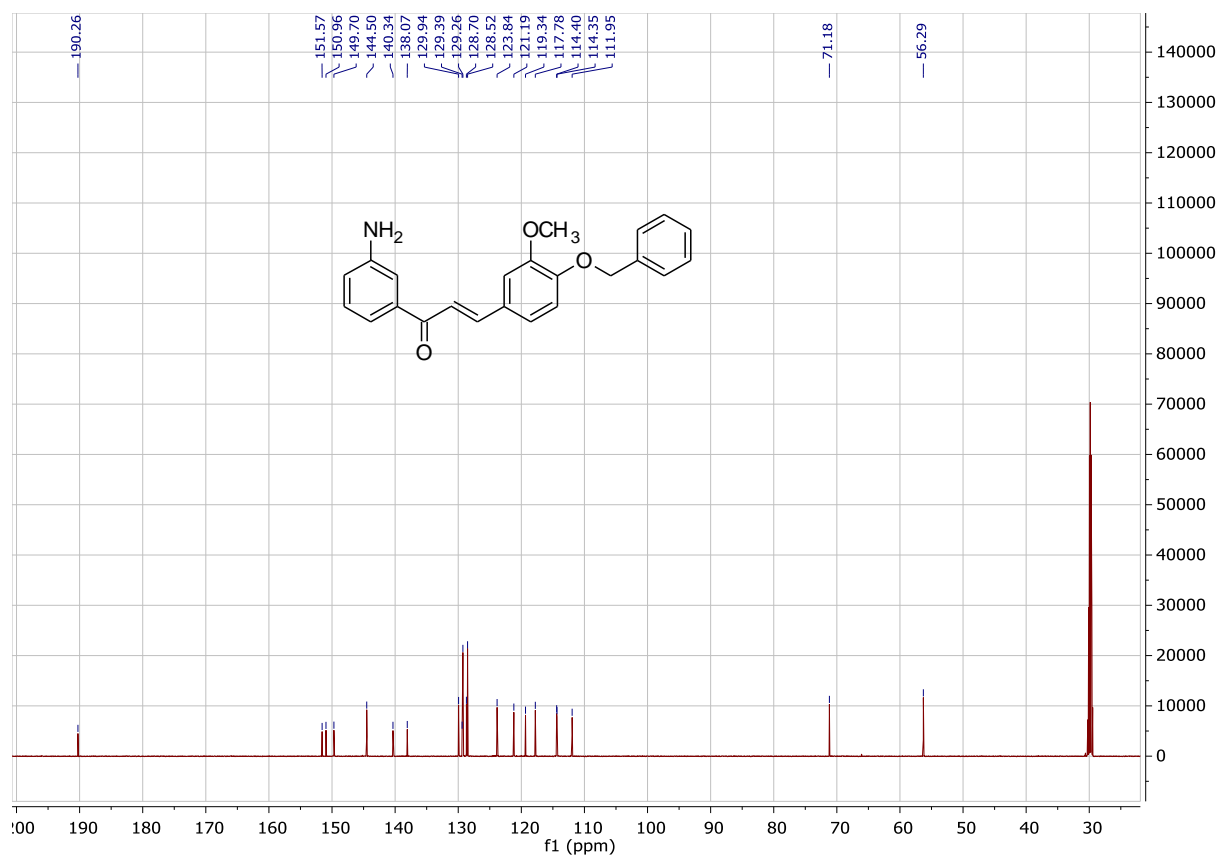


Figure S50. ^{13}C -NMR (150 MHz, acetone- d_6) spectrum of 3'-amino-4-benzyloxy-3-methoxychalcone (17)

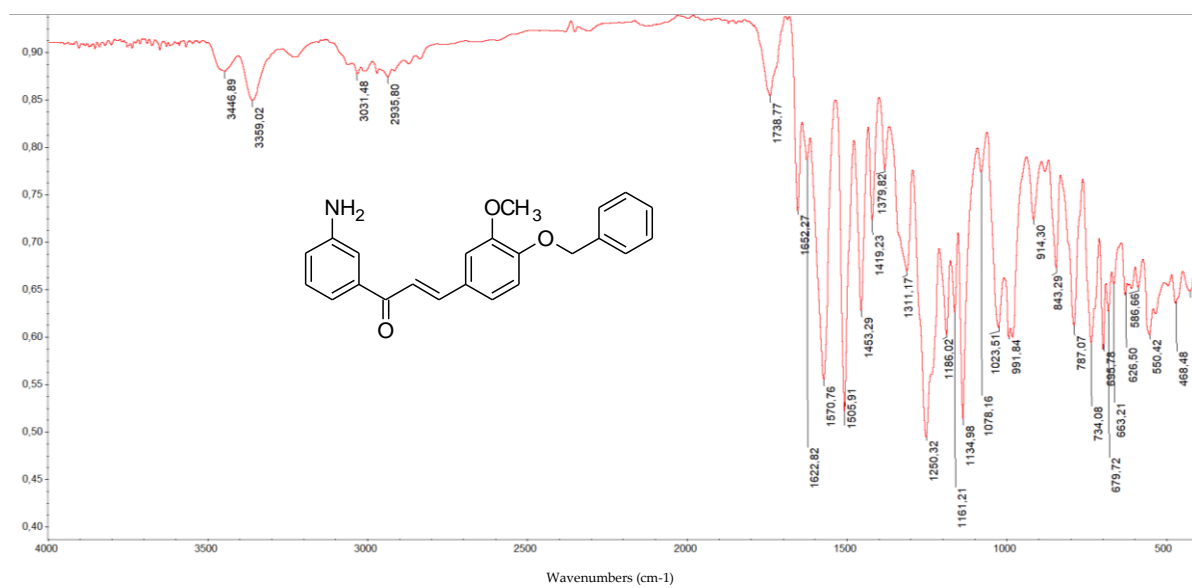


Figure S51. FTIR-ATR spectrum of 3'-amino-4-benzyloxy-3-methoxychalcone (17)

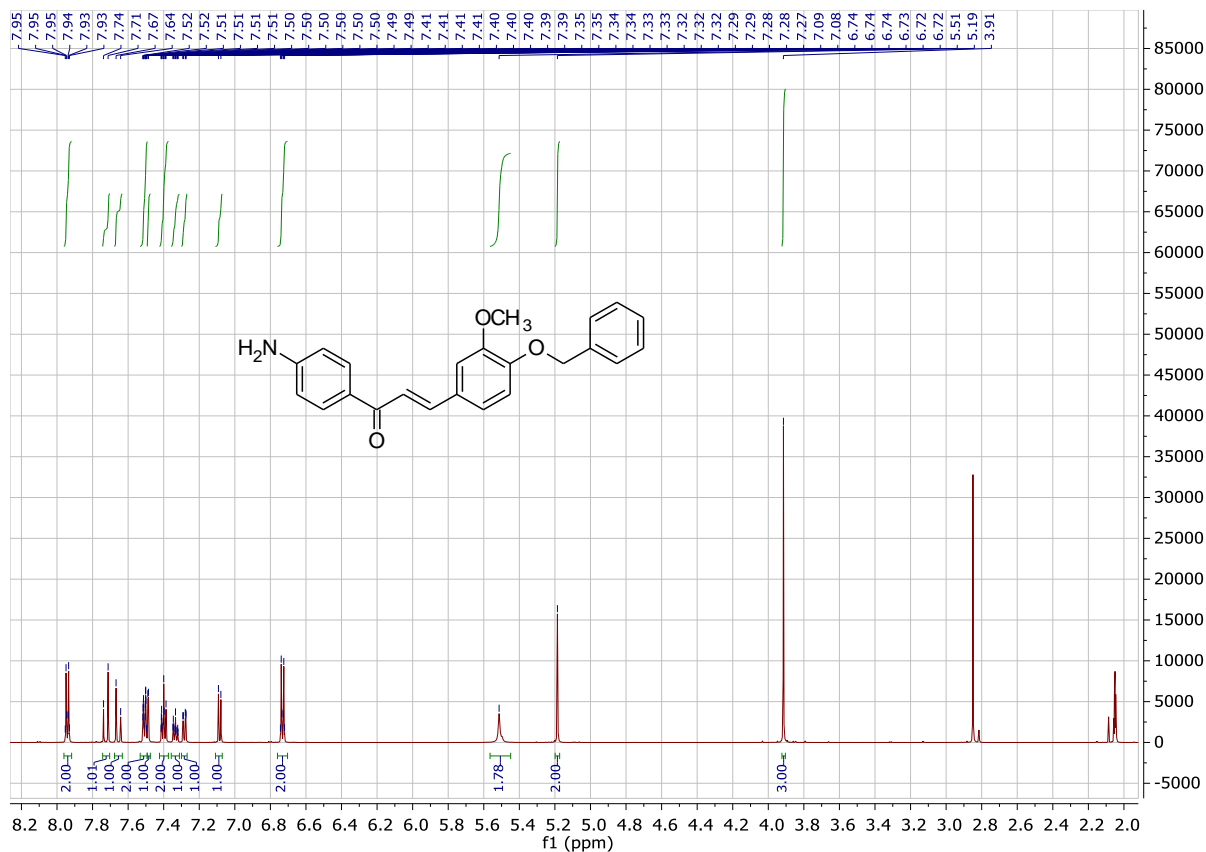


Figure S52. ¹H-NMR (600 MHz, acetone-*d*₆) spectrum of 4'-amino-4-benzyloxy-3-methoxychalcone (18)

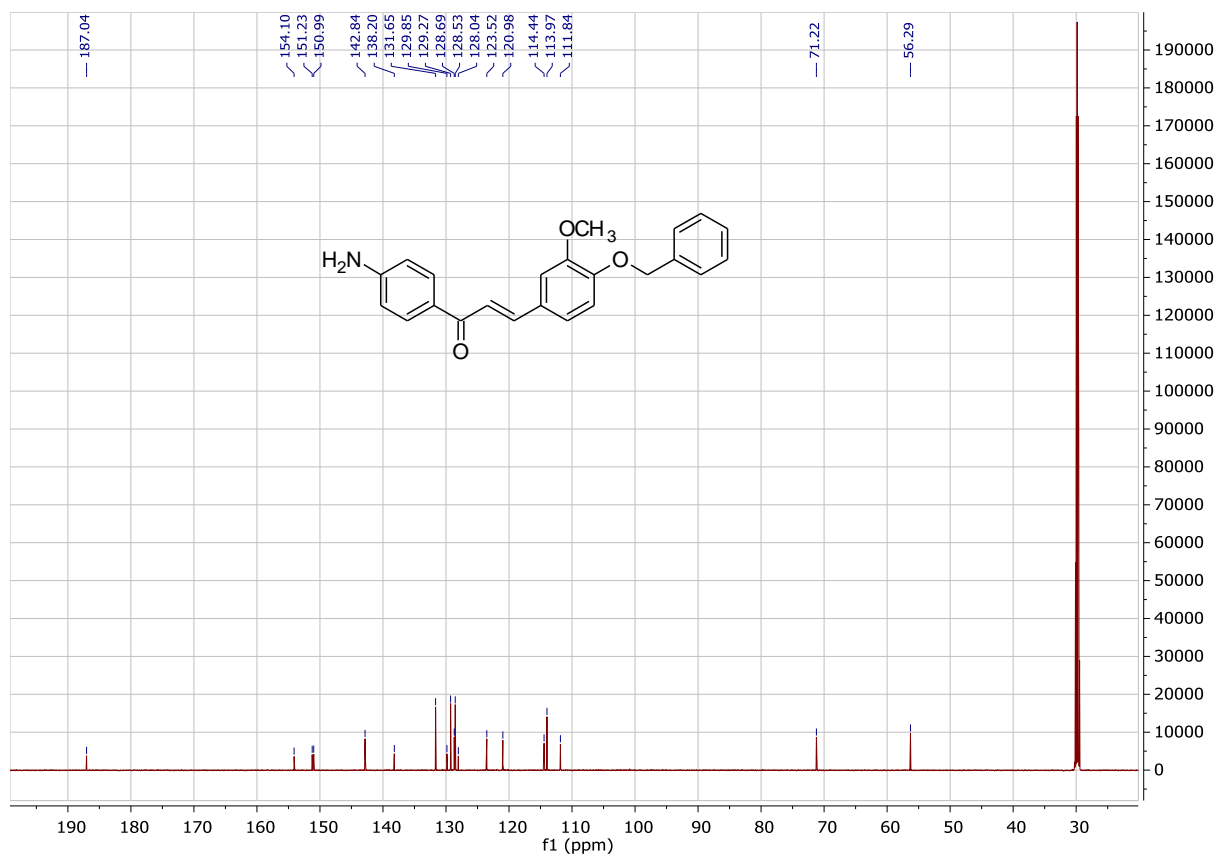


Figure S53. ¹³C-NMR (150 MHz, acetone-*d*₆) spectrum of 4'-amino-4-benzyloxy-3-methoxychalcone (18)

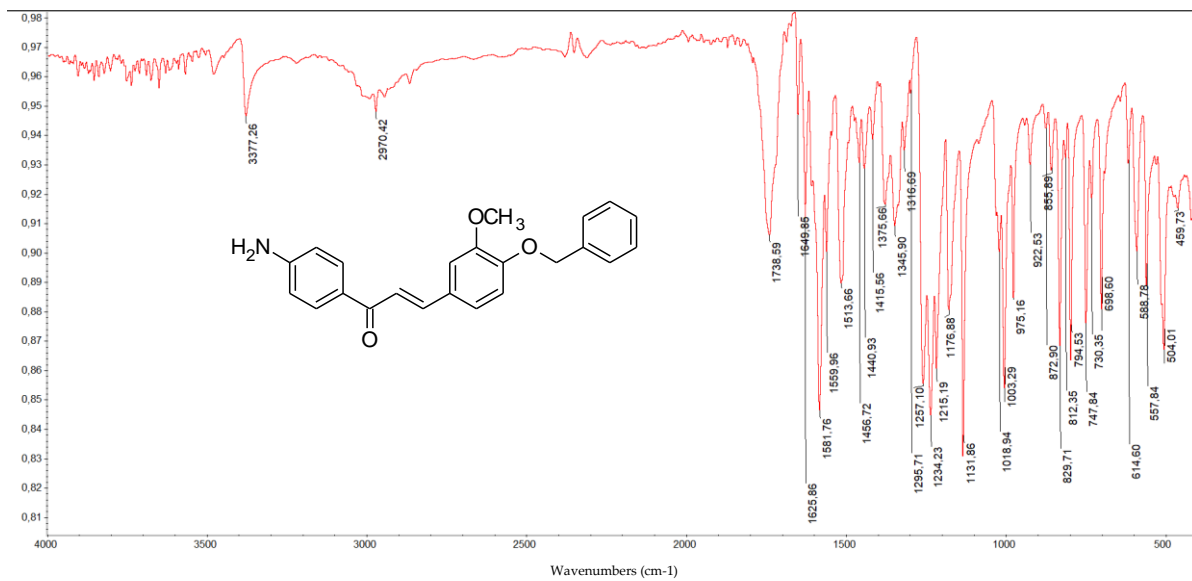


Figure S54. FTIR-ATR spectrum of 4'-amino-4-benzyloxy-3-methoxychalcone (18)