

Supporting information

Novel cinnamic acid-based N-benzyl pyridinium analogs: potent dual cholinesterase inhibitors with neuroprotective properties for Alzheimer's disease

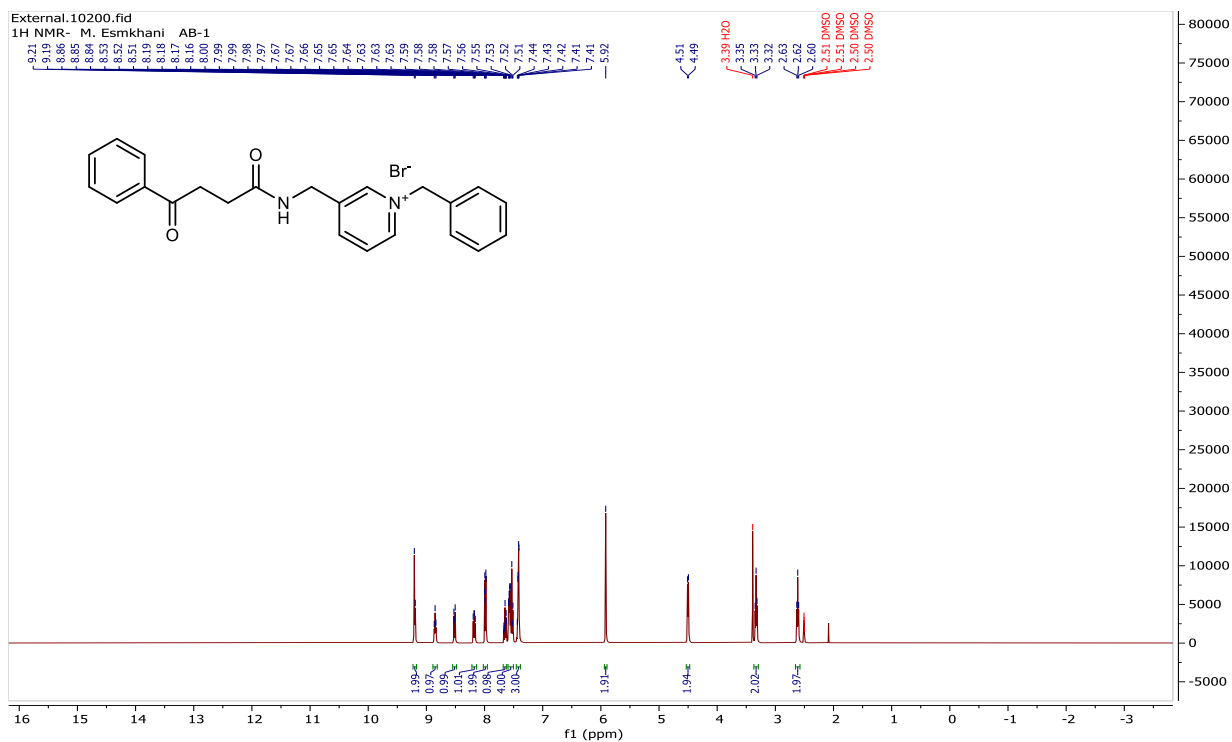


Figure S 1. ¹H NMR spectra of compound 7a.

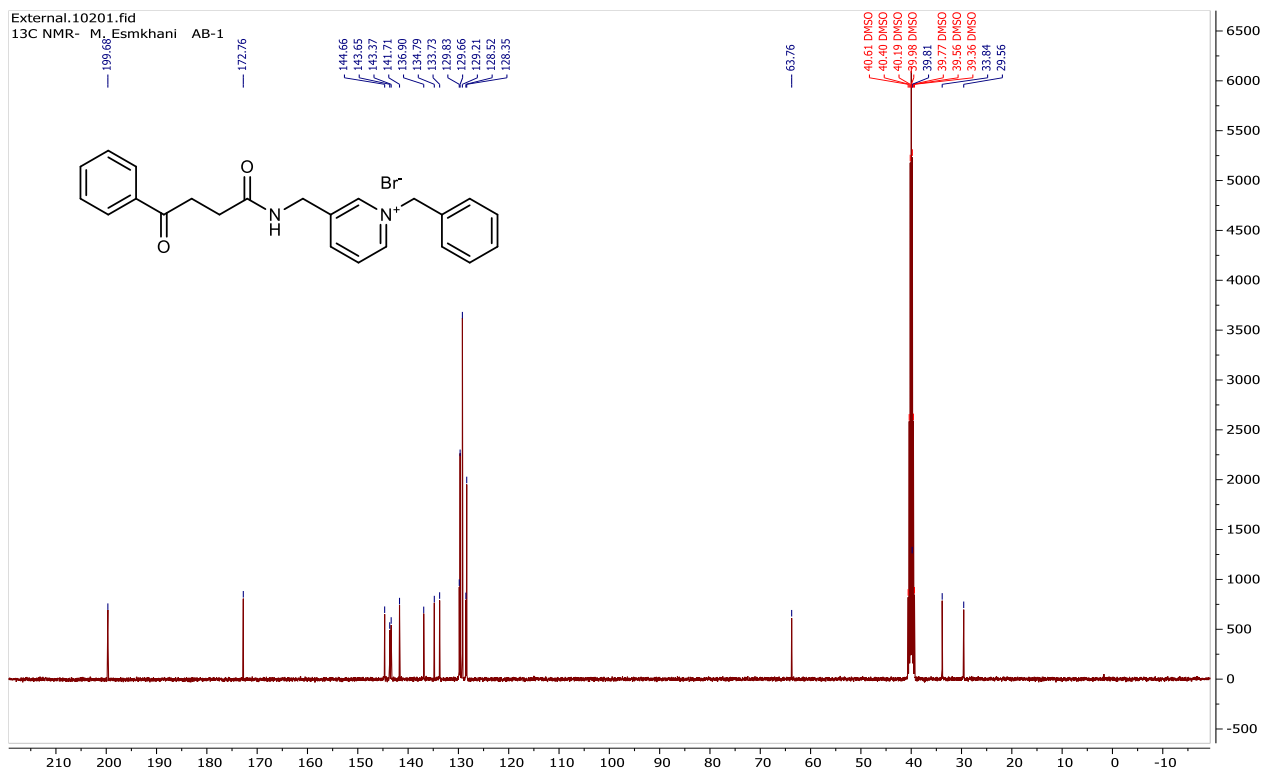


Figure S 2. ¹³C NMR spectra of compound 7a.

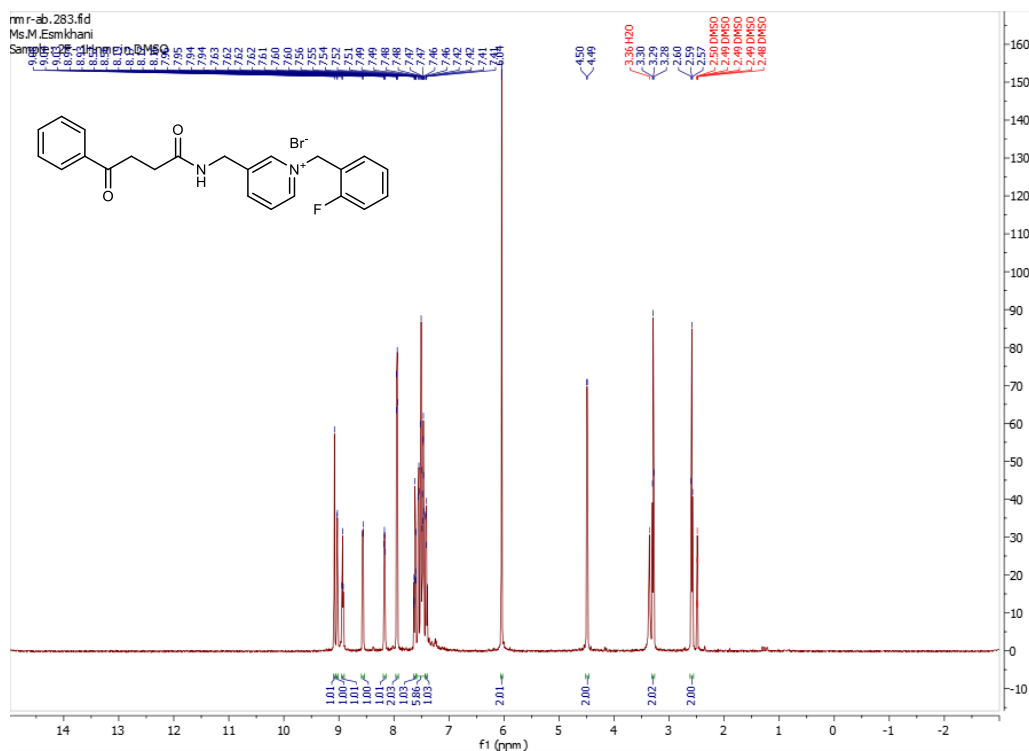
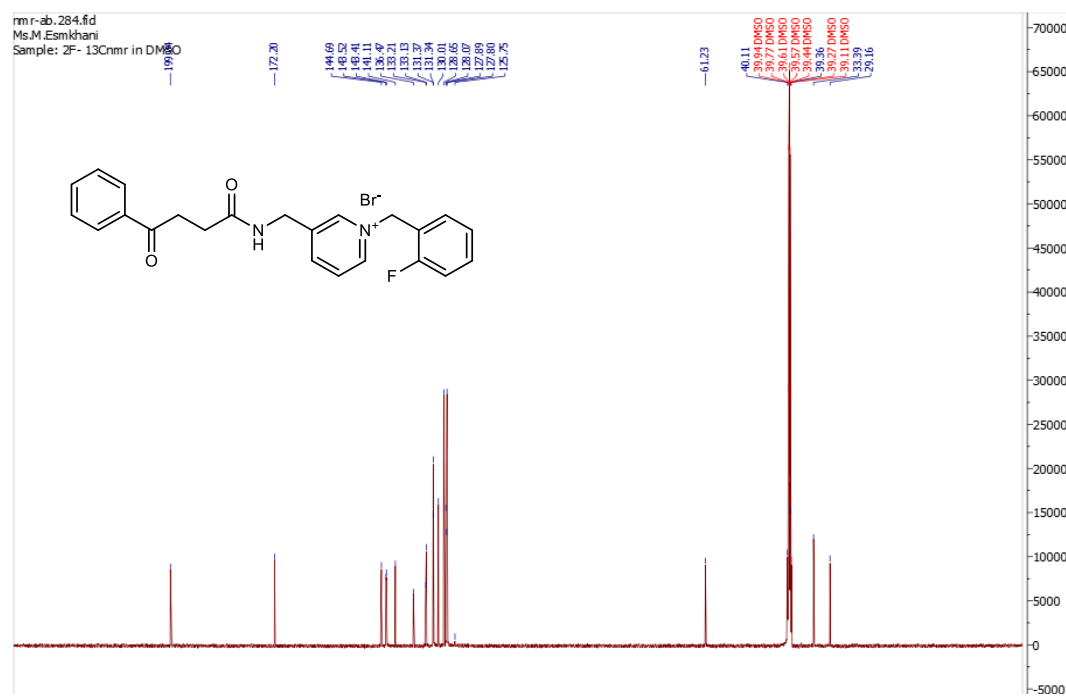


Figure S 3. ¹HNMR spectra of compound 7b.



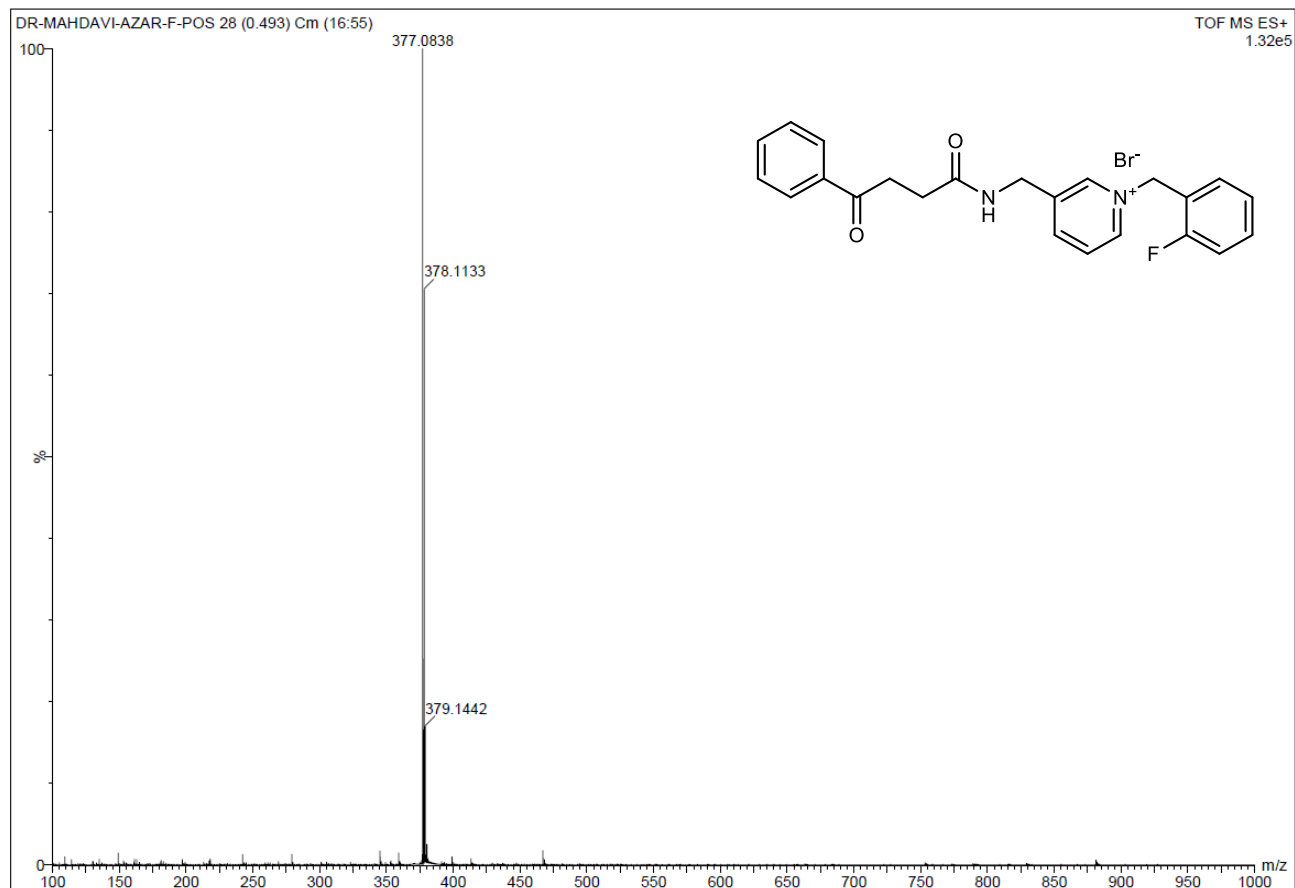
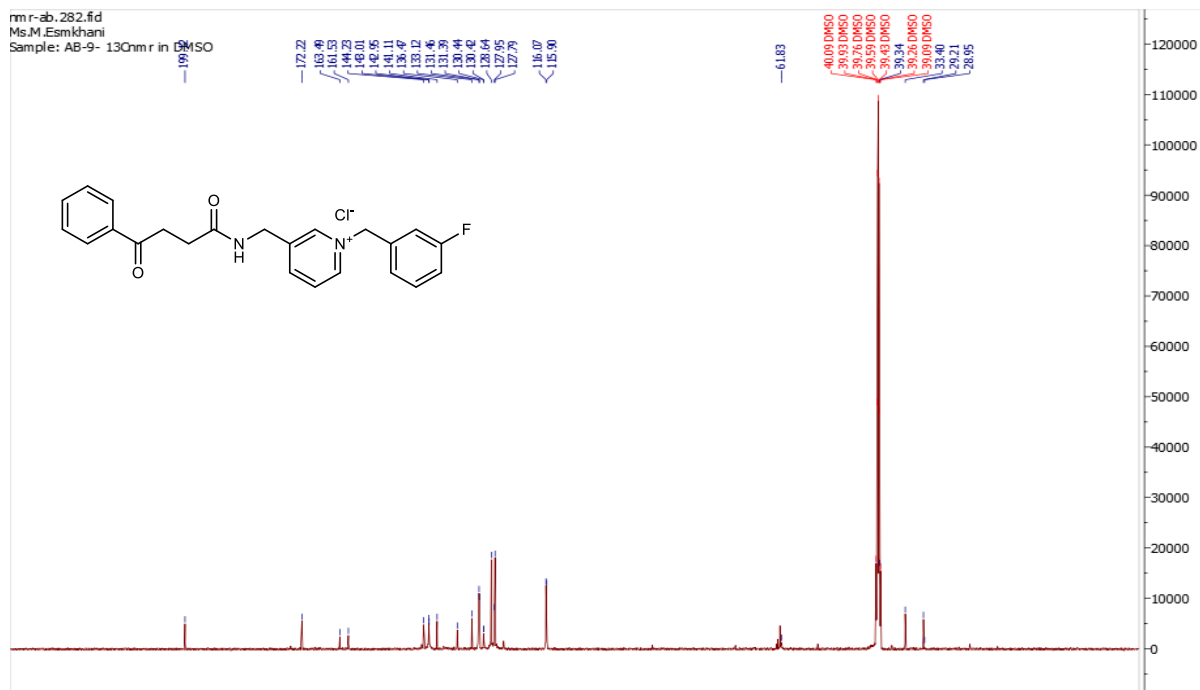
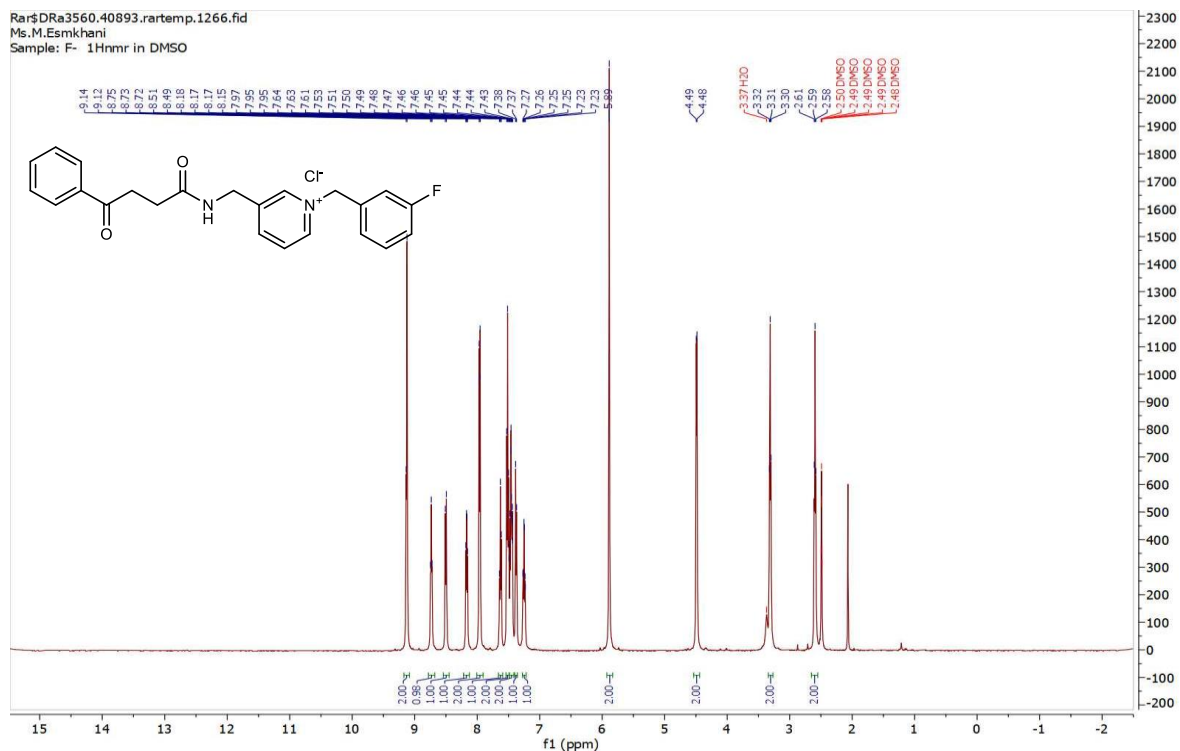


Figure S 5. HRMS spectra of compound 7b.



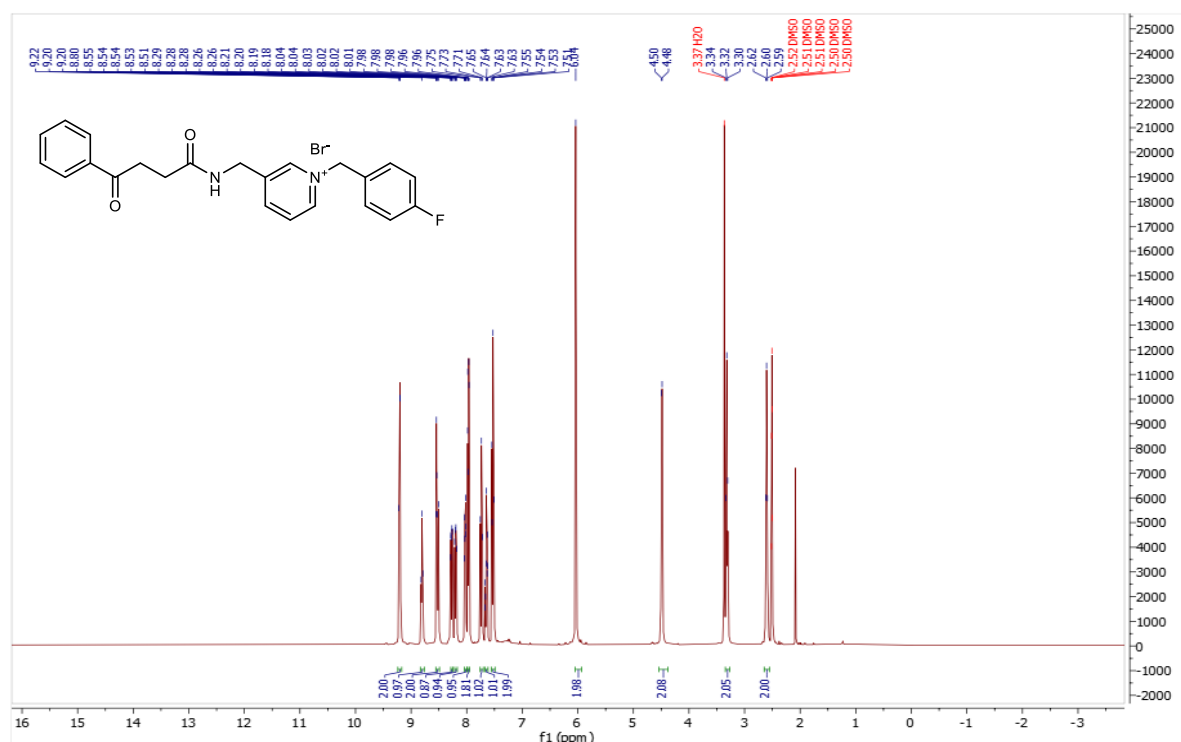


Figure S 8. ¹H NMR spectra of compound 7d.

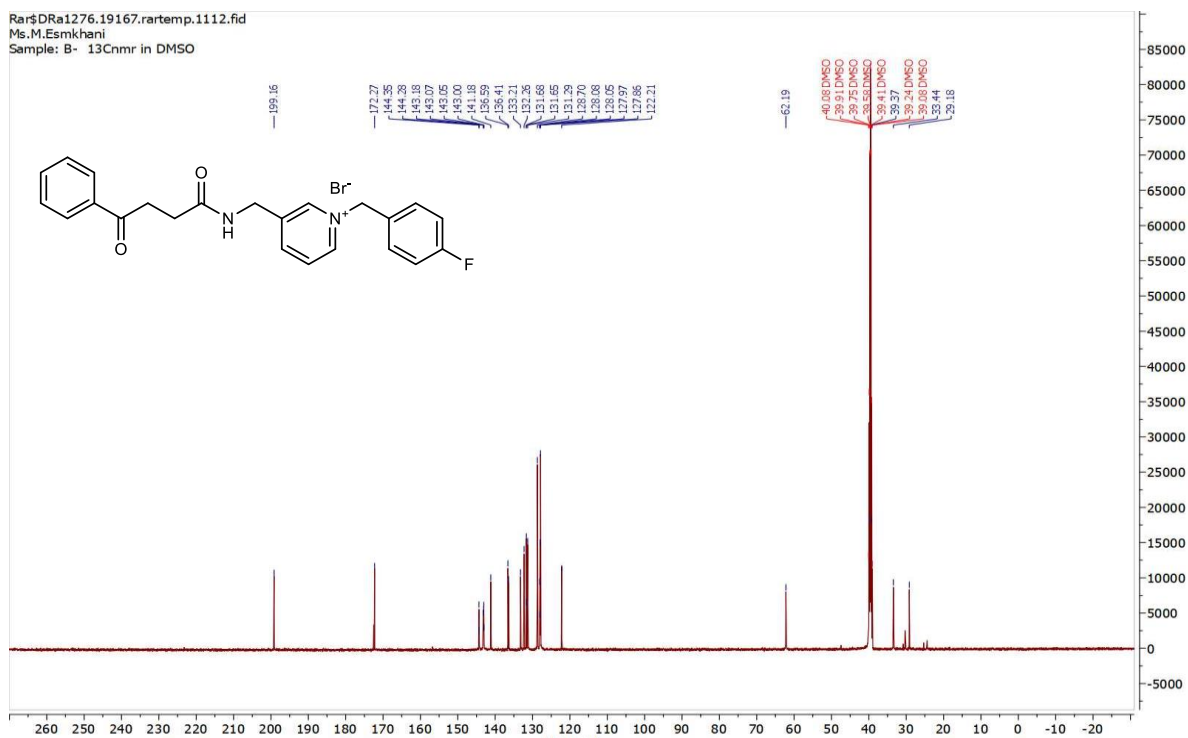


Figure S 9. ¹³C NMR spectra of compound 7d

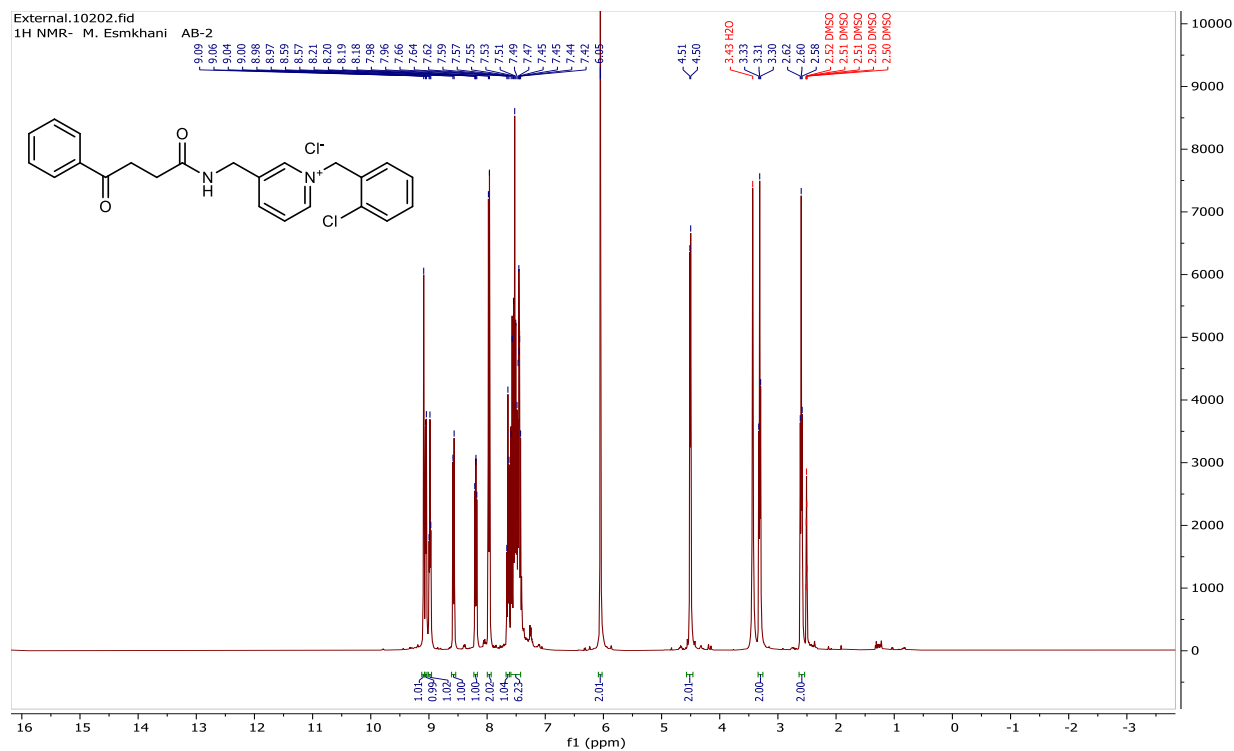


Figure S 10. ¹H NMR spectra of compound 7e.

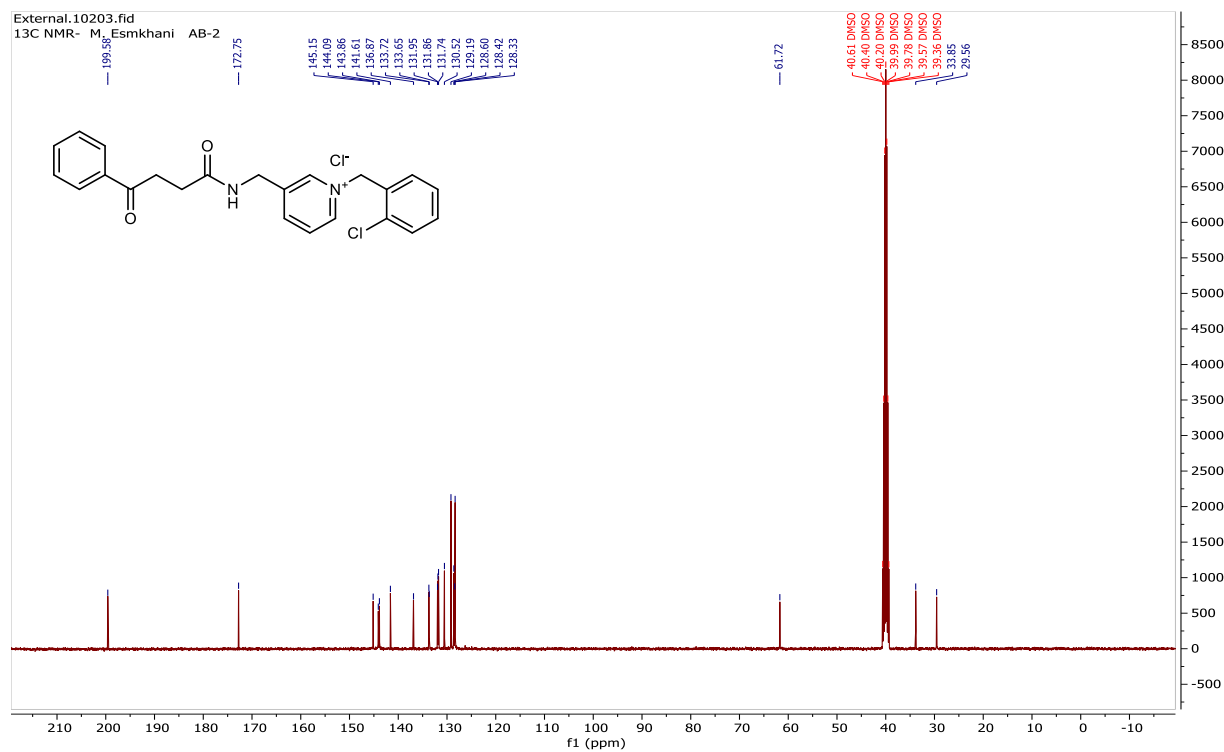
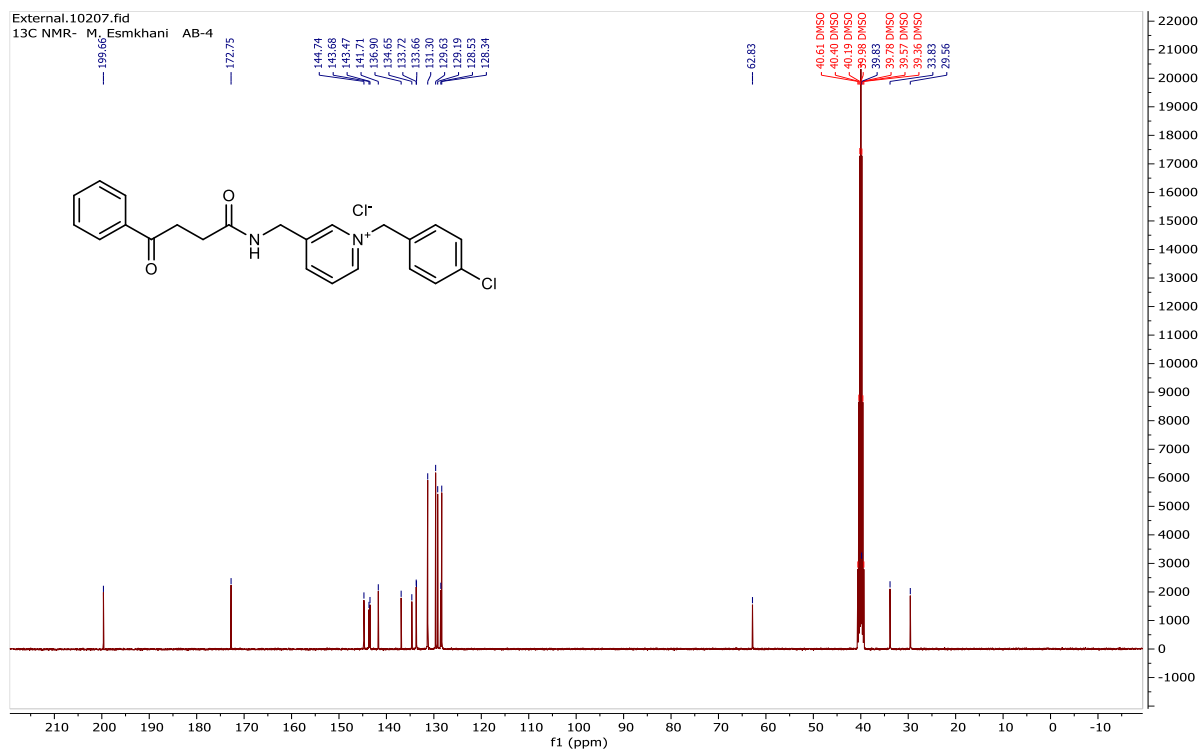
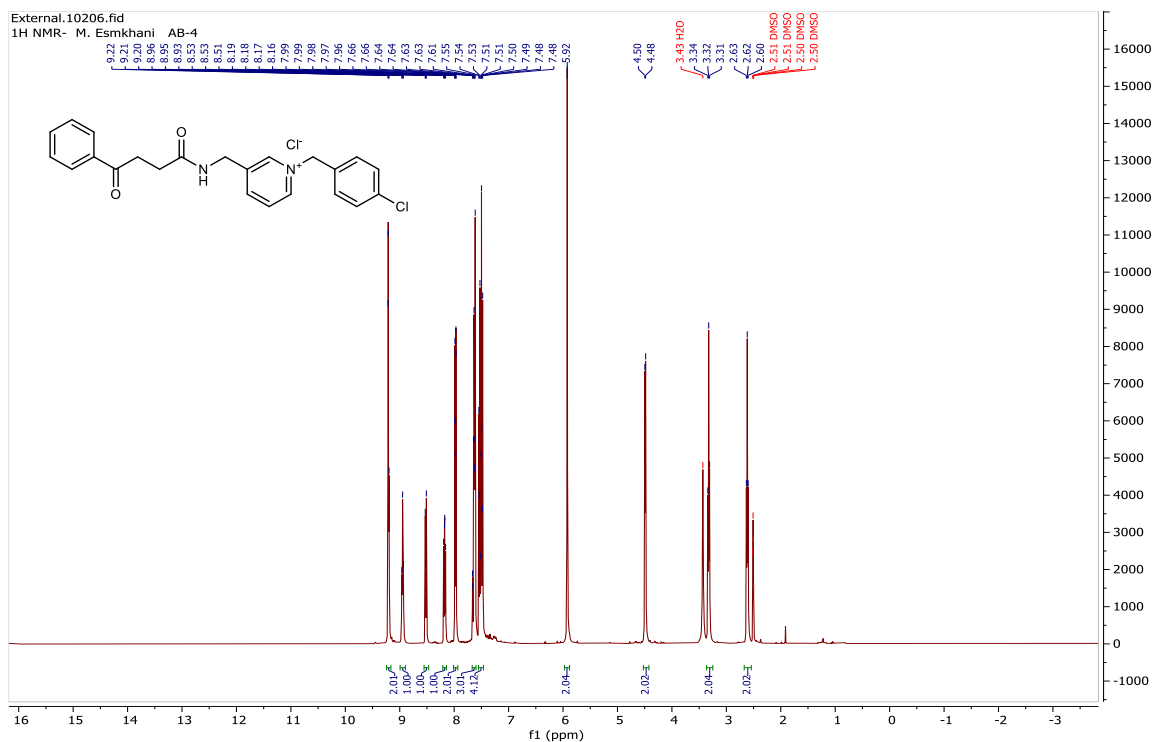


Figure S 11. ¹³C NMR spectra of compound 7e.



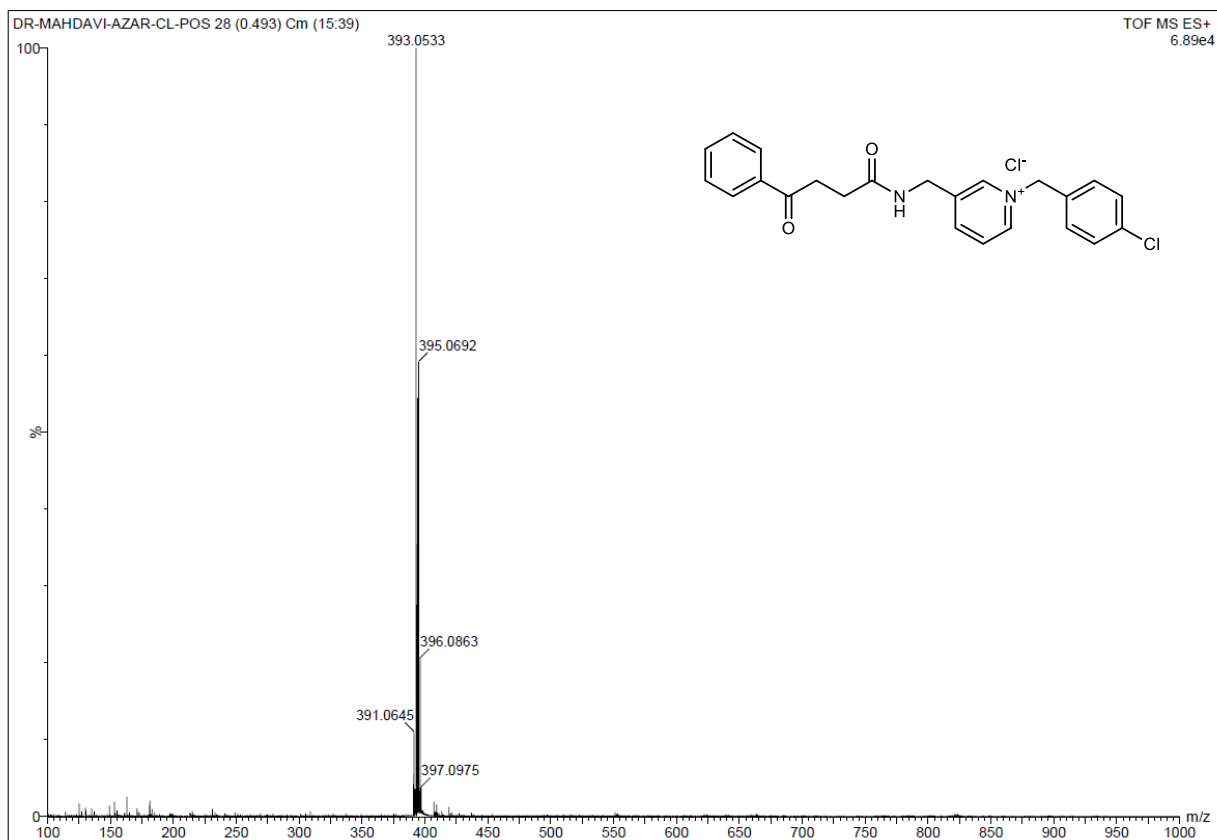


Figure S 16. HRMS spectra of compound 7g.

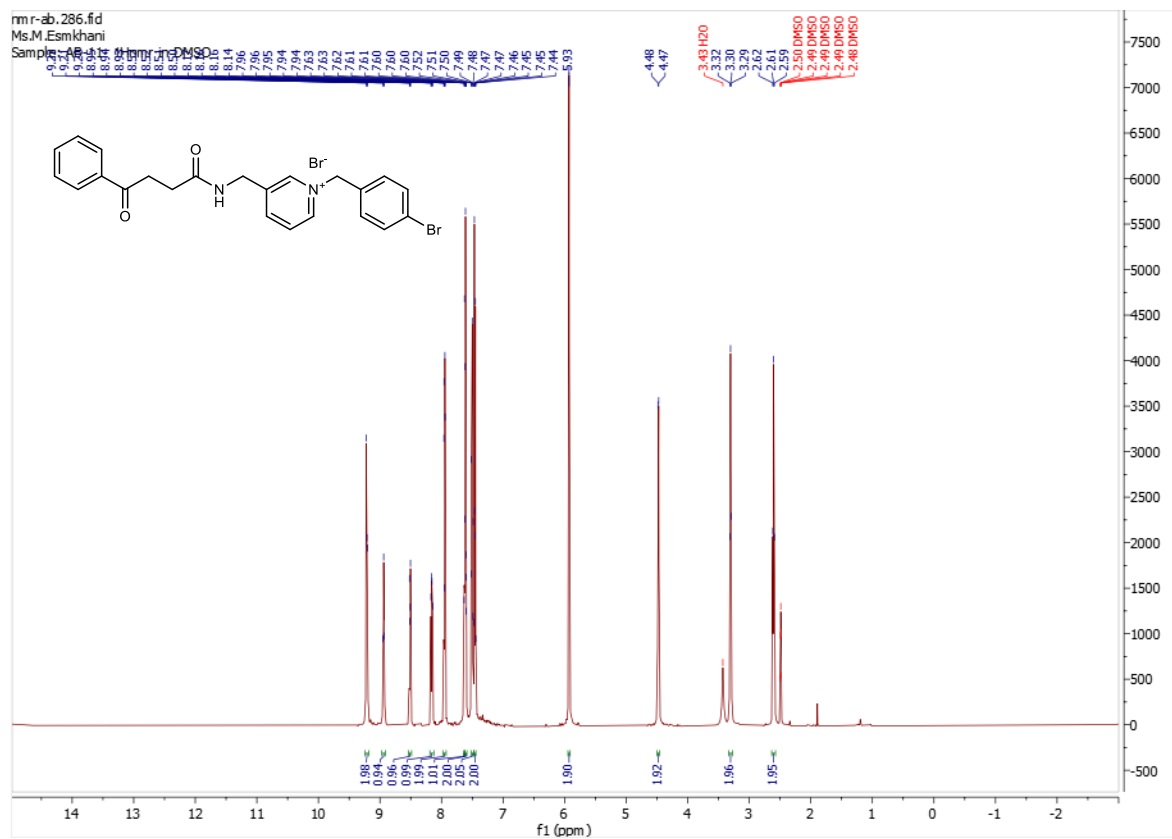


Figure S 17. ^1H NMR spectra of compound 7h.

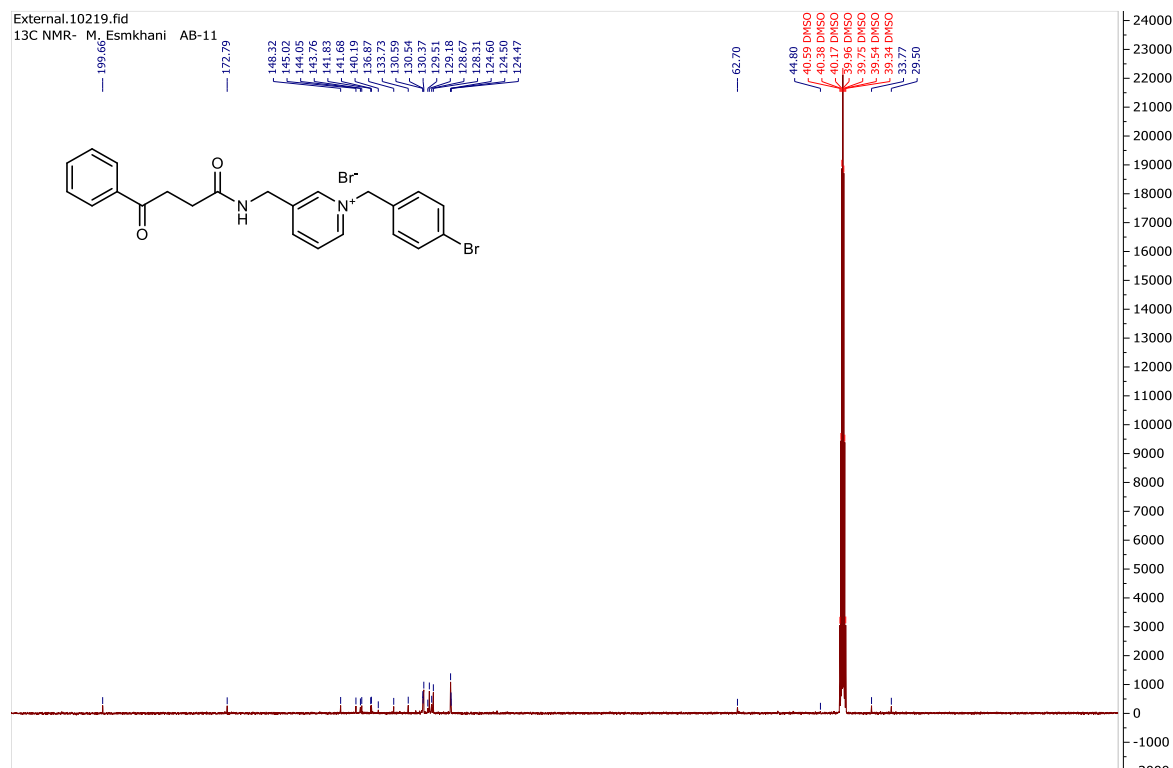


Figure S 18. ^{13}C NMR spectra of compound 7h

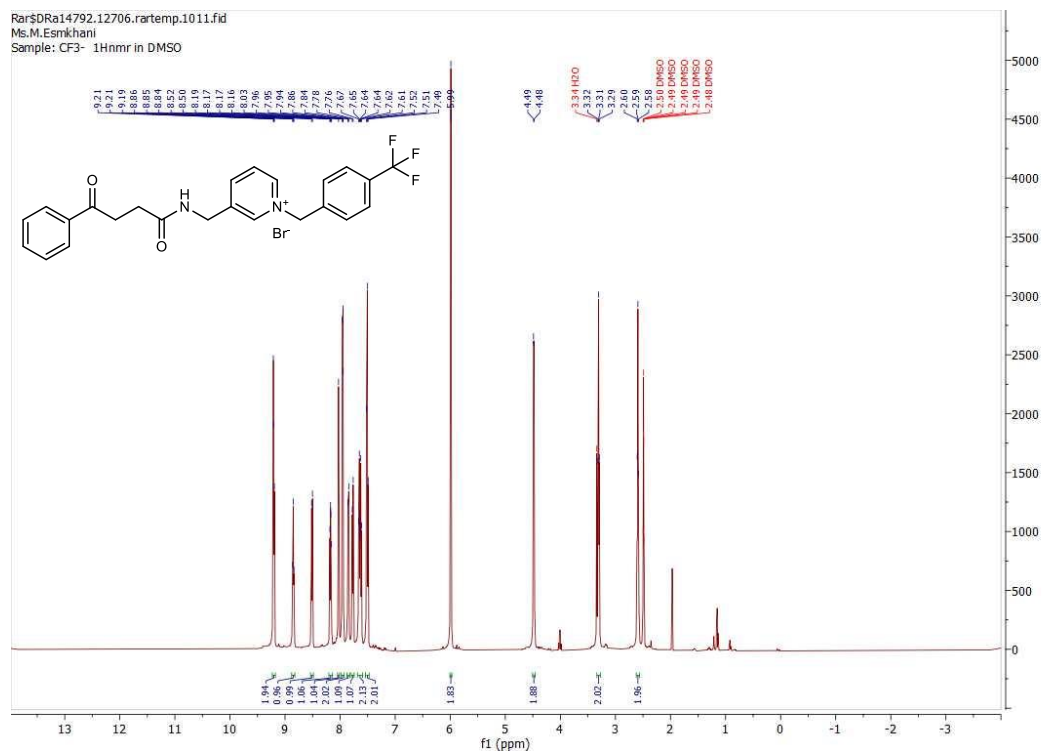


Figure S 19. ¹H NMR spectra of compound 7i.

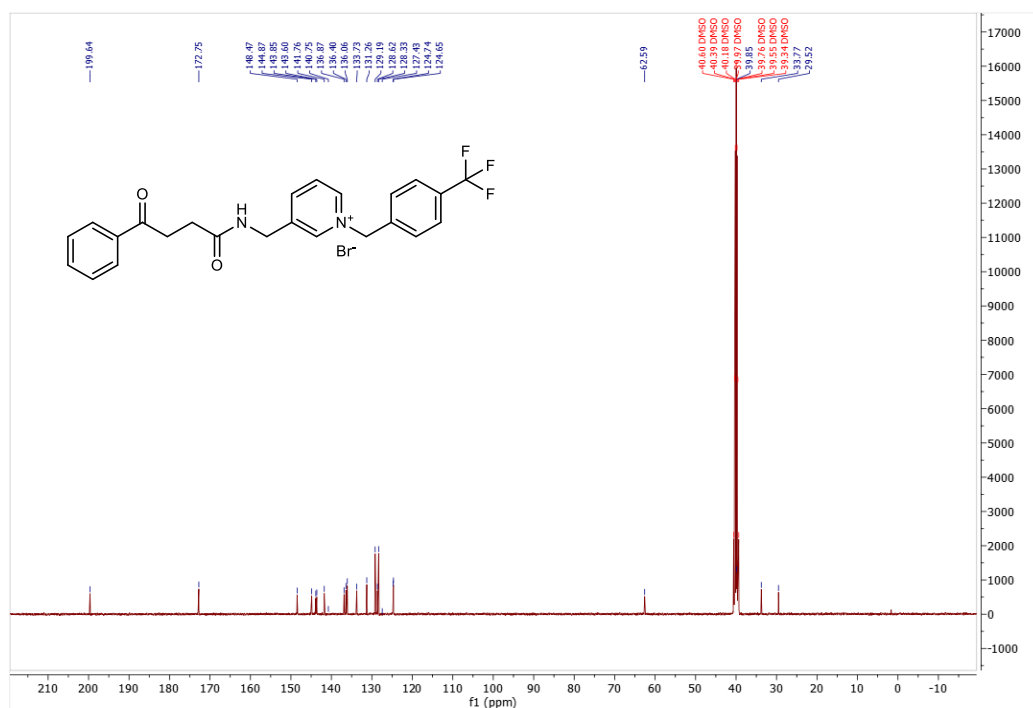


Figure S 20. ¹³C NMR spectra of compound 7i.

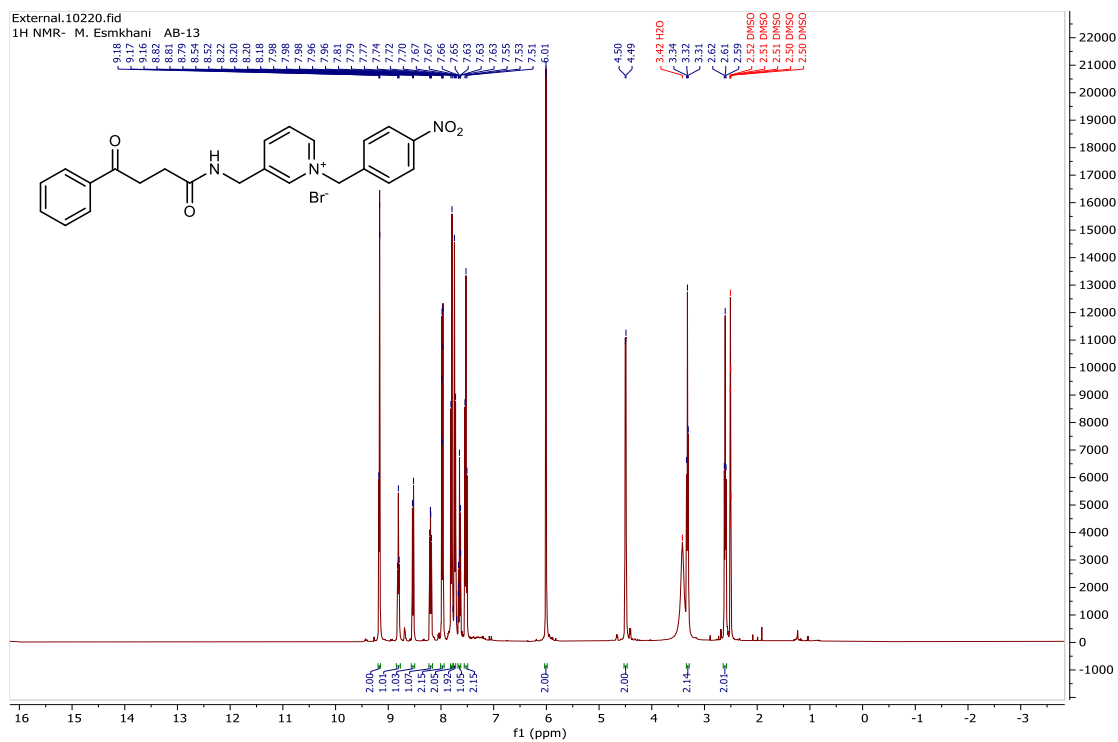


Figure S 21. ¹H NMR spectra of compound 7j.

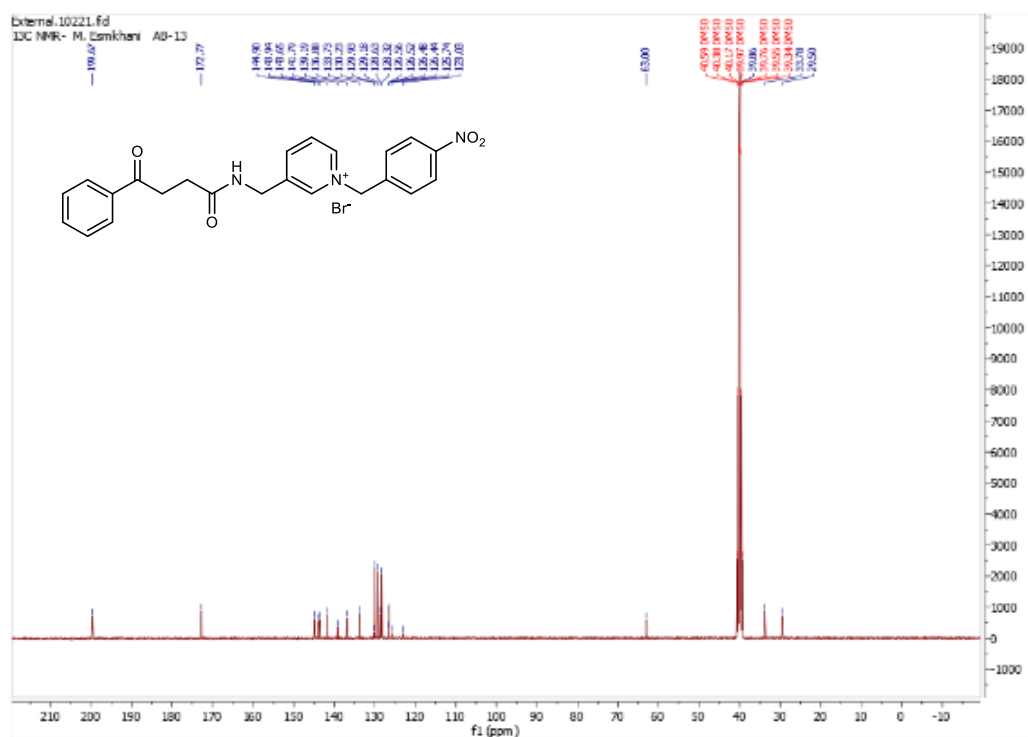


Figure S 22. ¹³C NMR spectra of compound 7j.

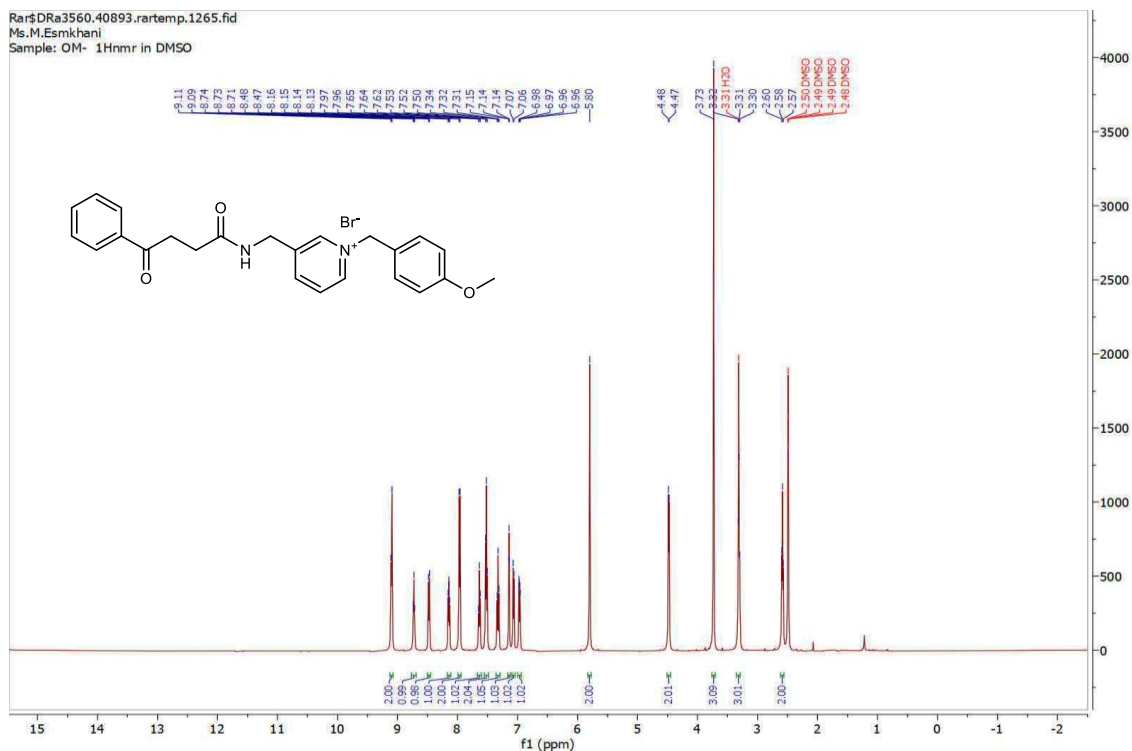
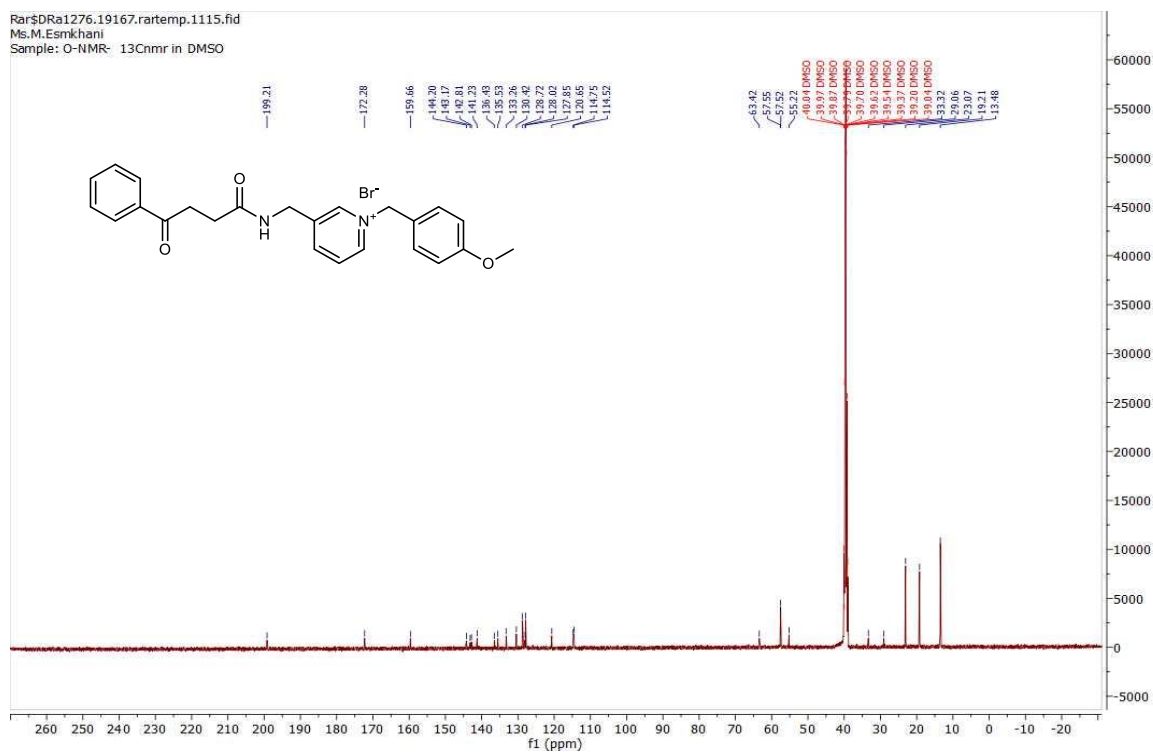


Figure S 23. ¹HNMR spectra of compound 7k.



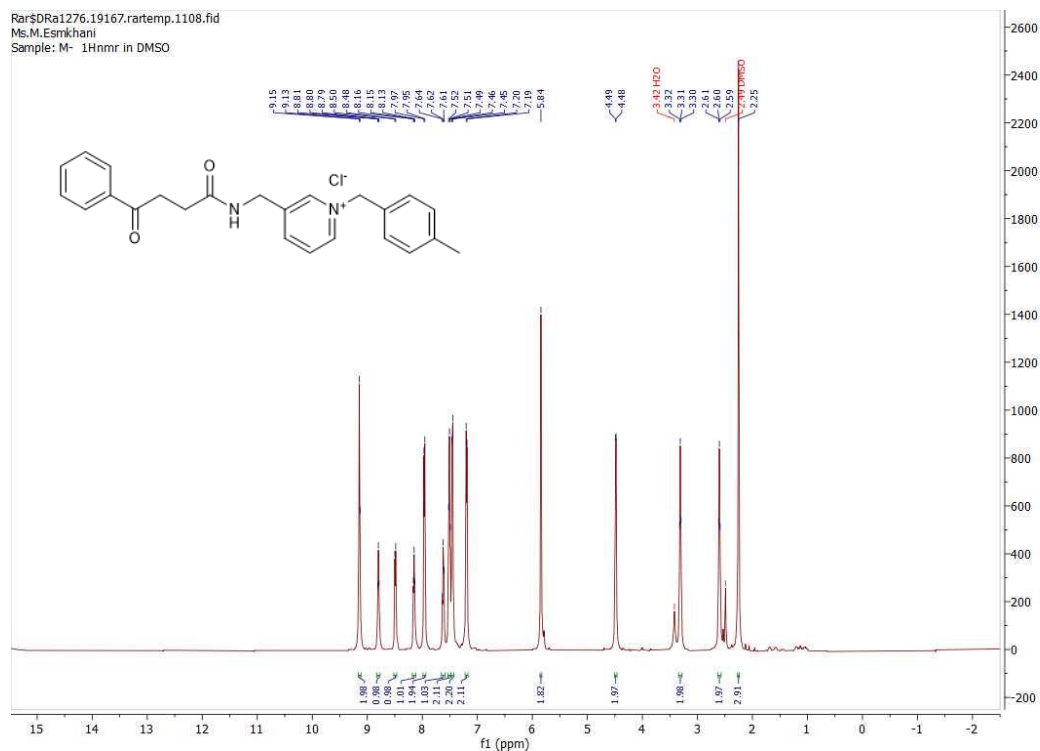


Figure S 25. ¹H NMR spectra of compound 7l.

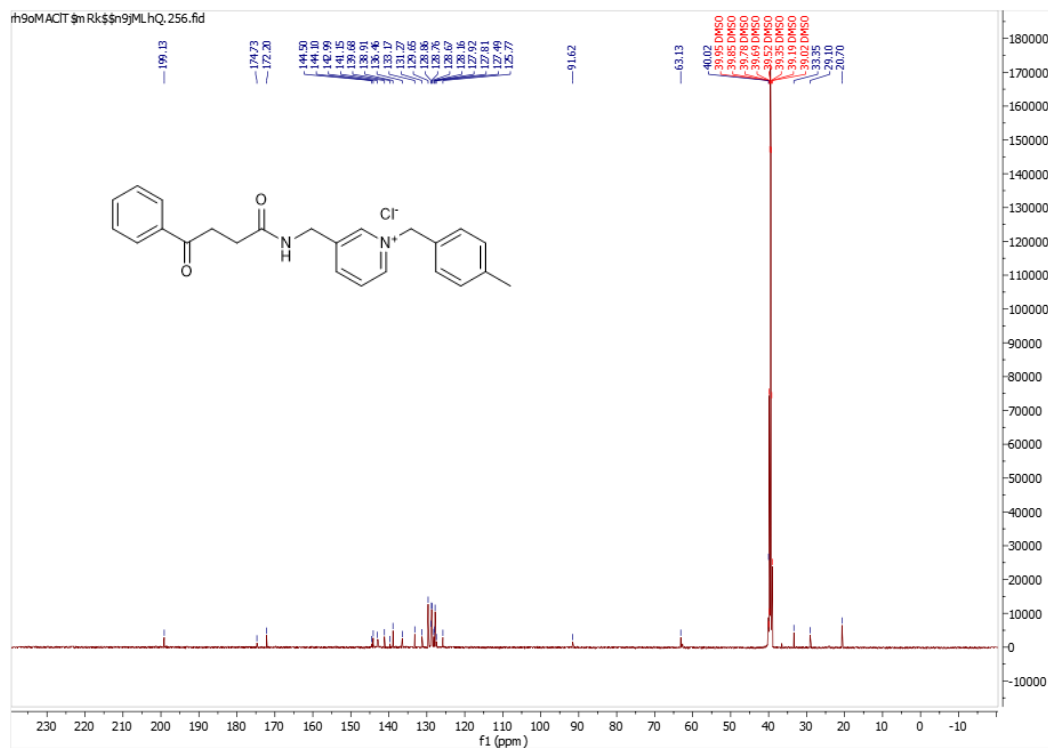
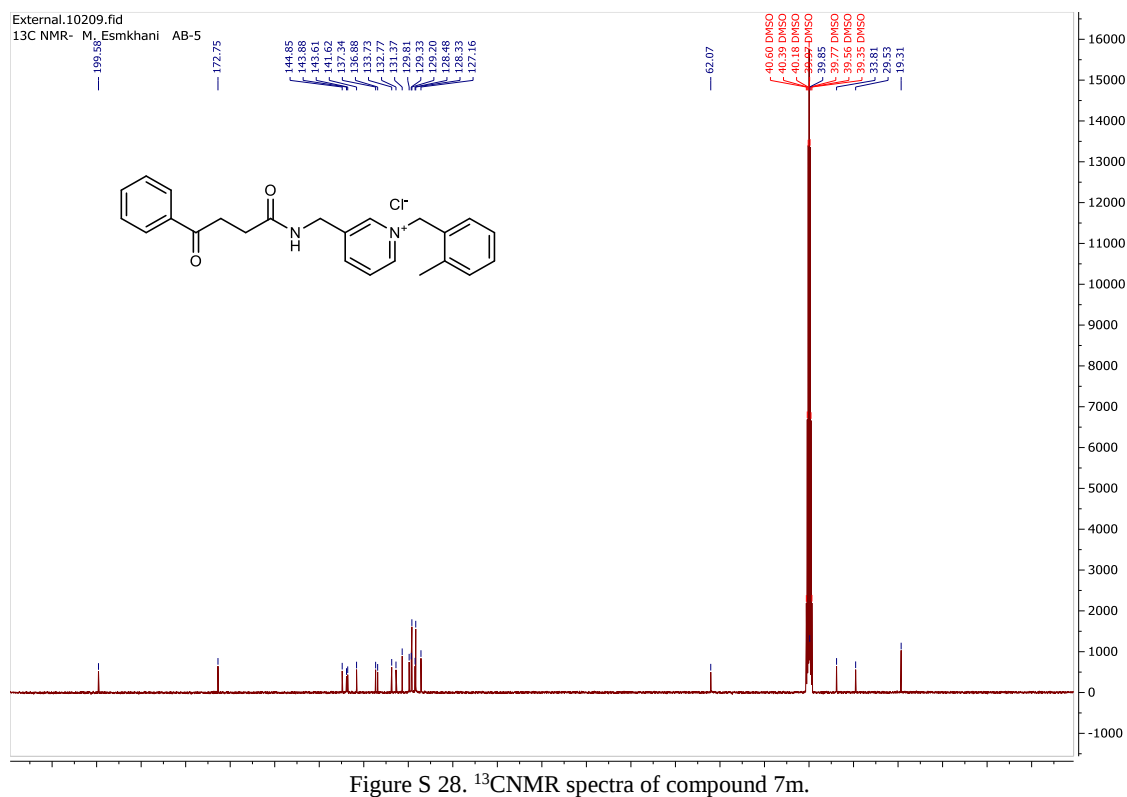
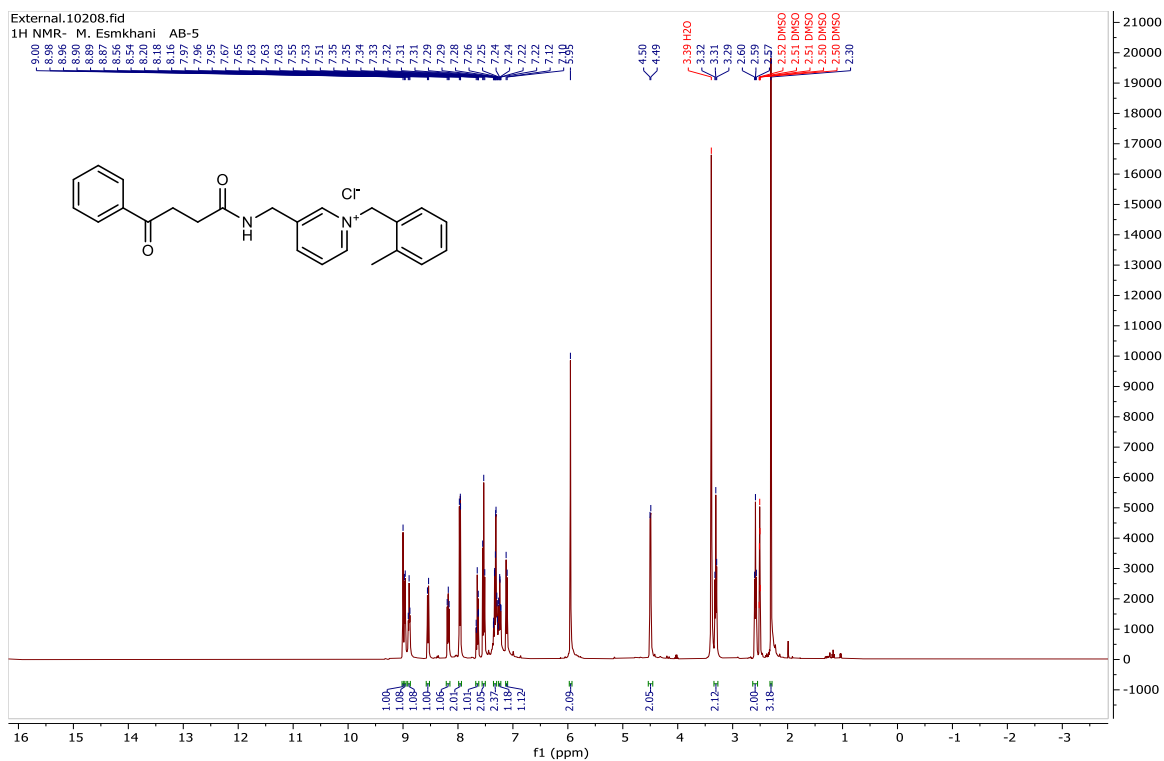


Figure S 26. ¹³C NMR spectra of compound 7l.



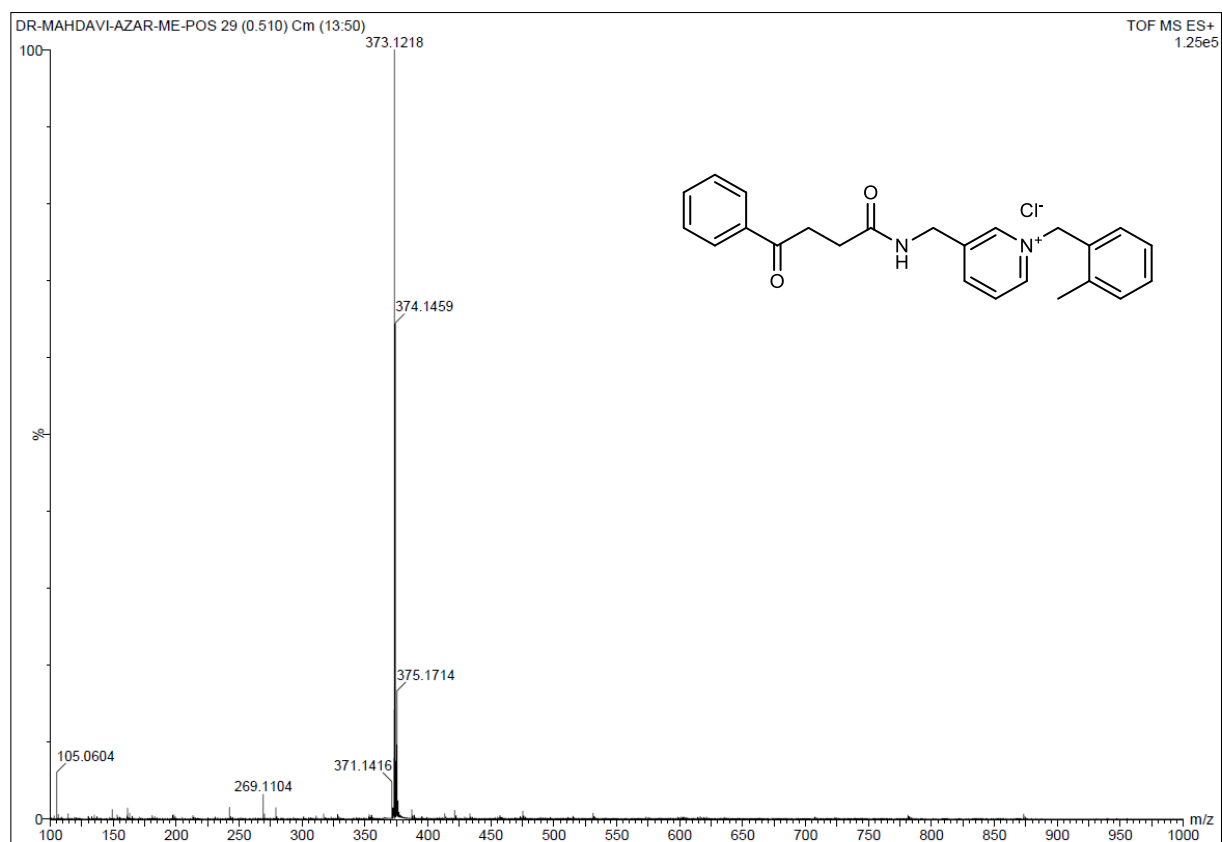
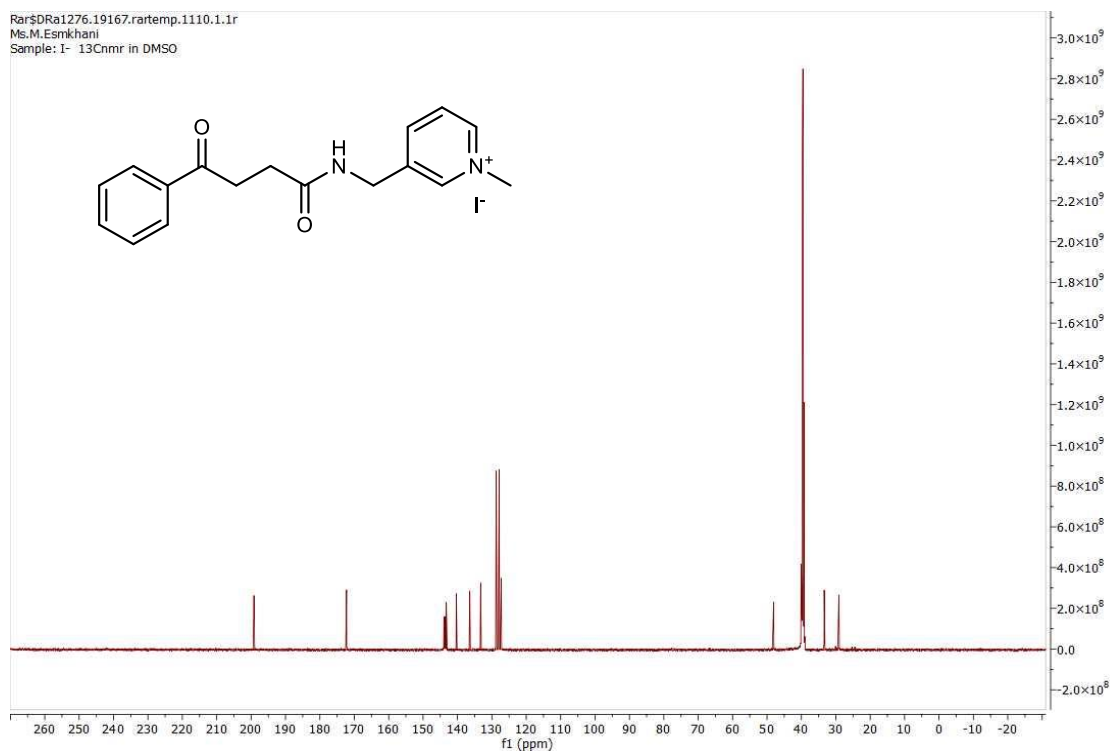
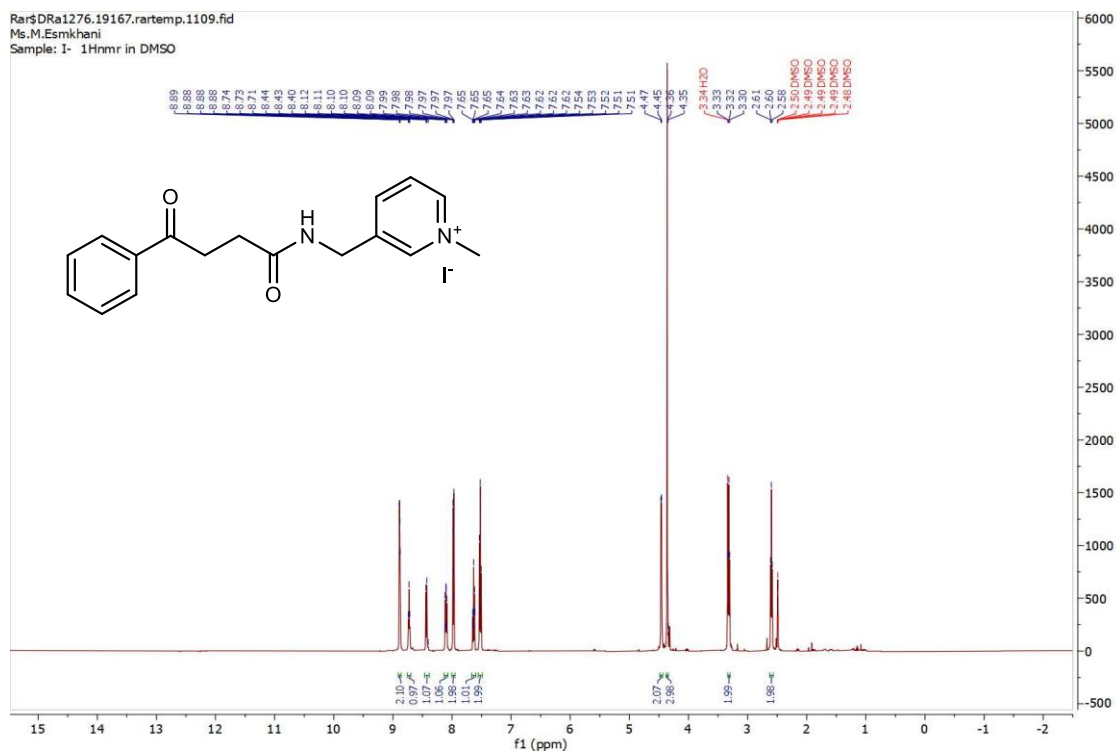


Figure S 29. HRMS spectra of compound 7m.



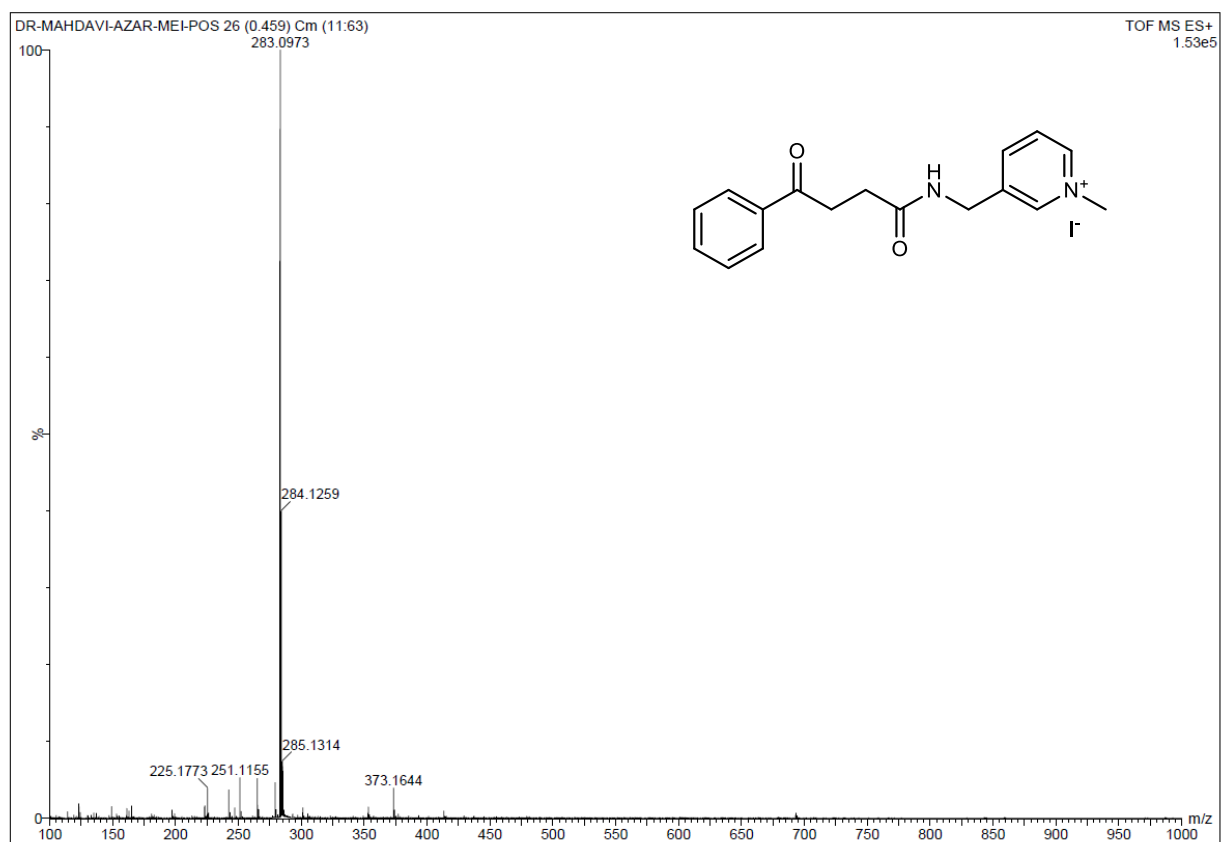


Figure S 32. HRMS spectra of compound 7n.

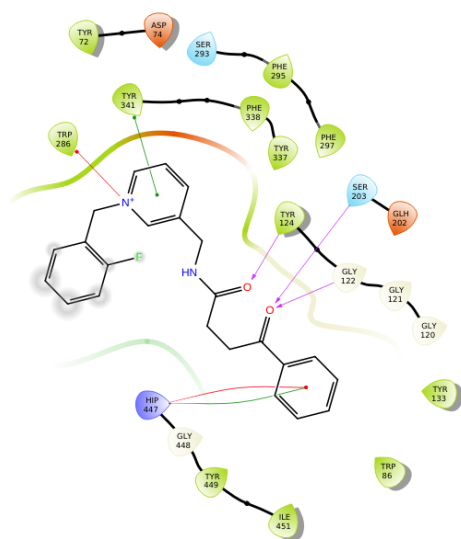


Figure S 33. Interaction of 7b in the active site of AChE

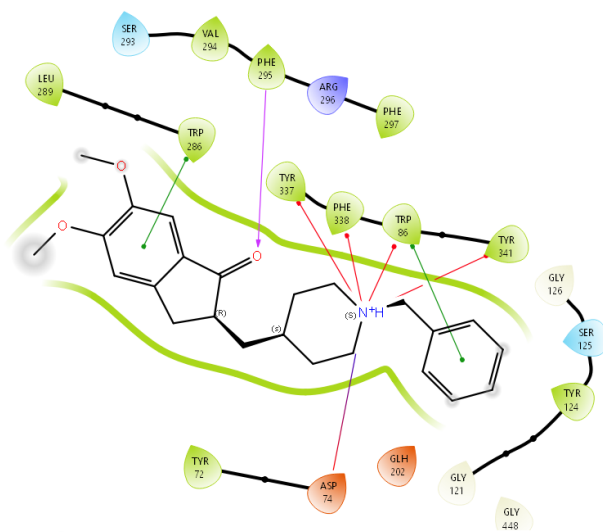


Figure S 34. 2D interaction of donepezil in the active site of AChE

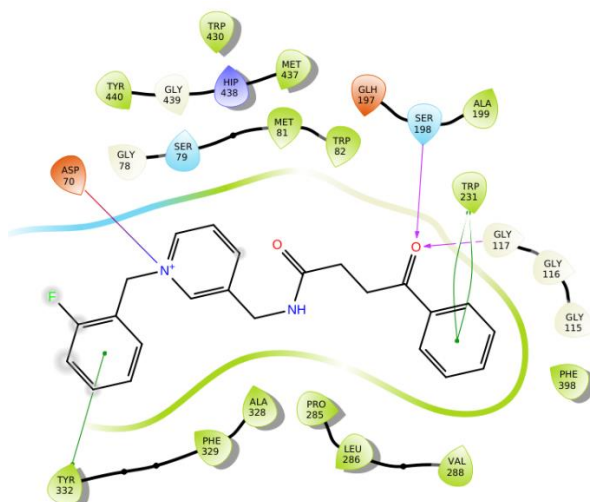


Figure S 35. 2D interaction of 7b in the active site of BCHE

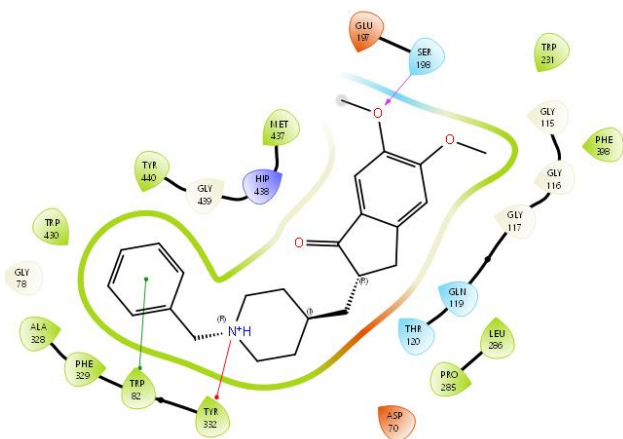
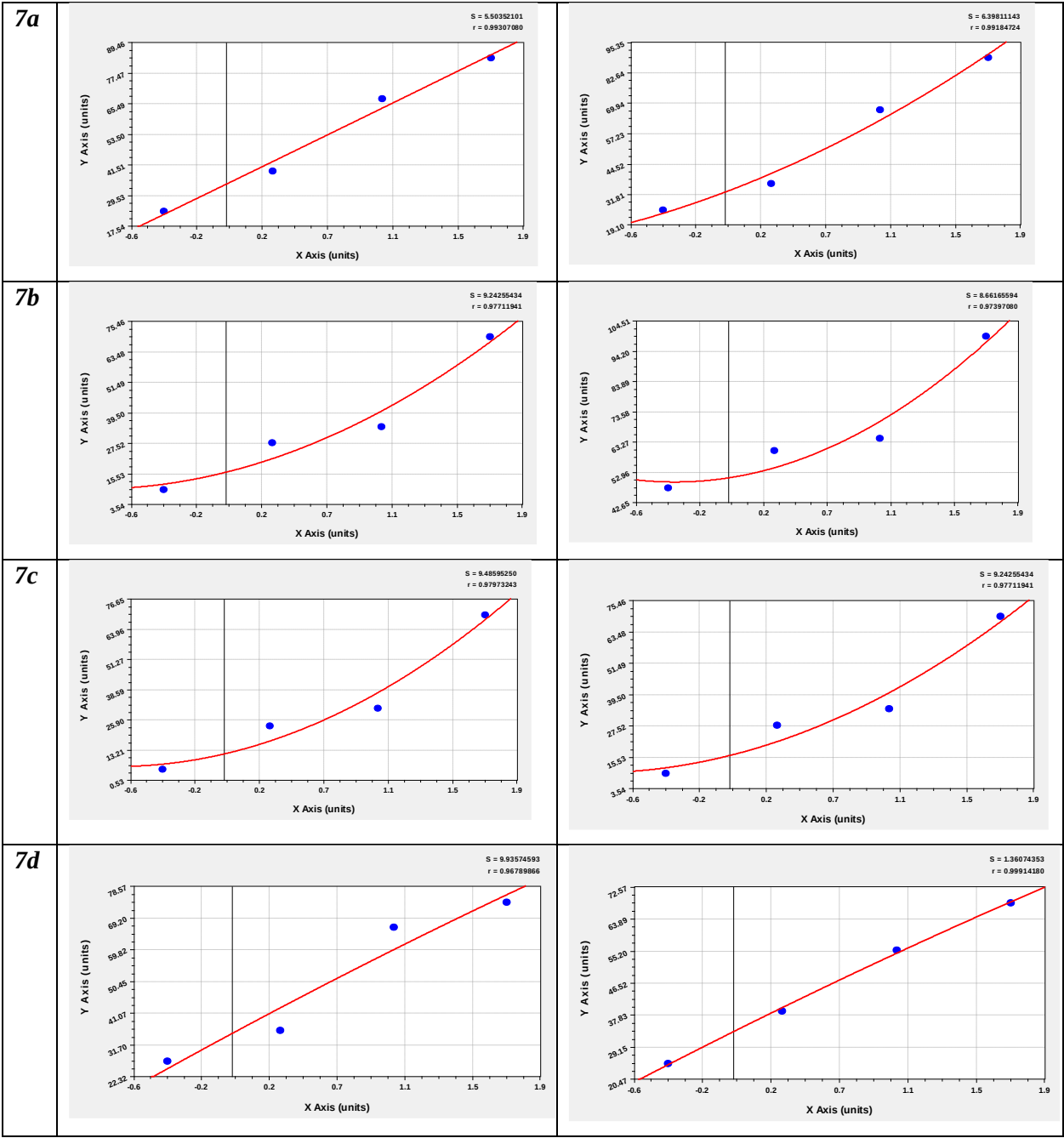
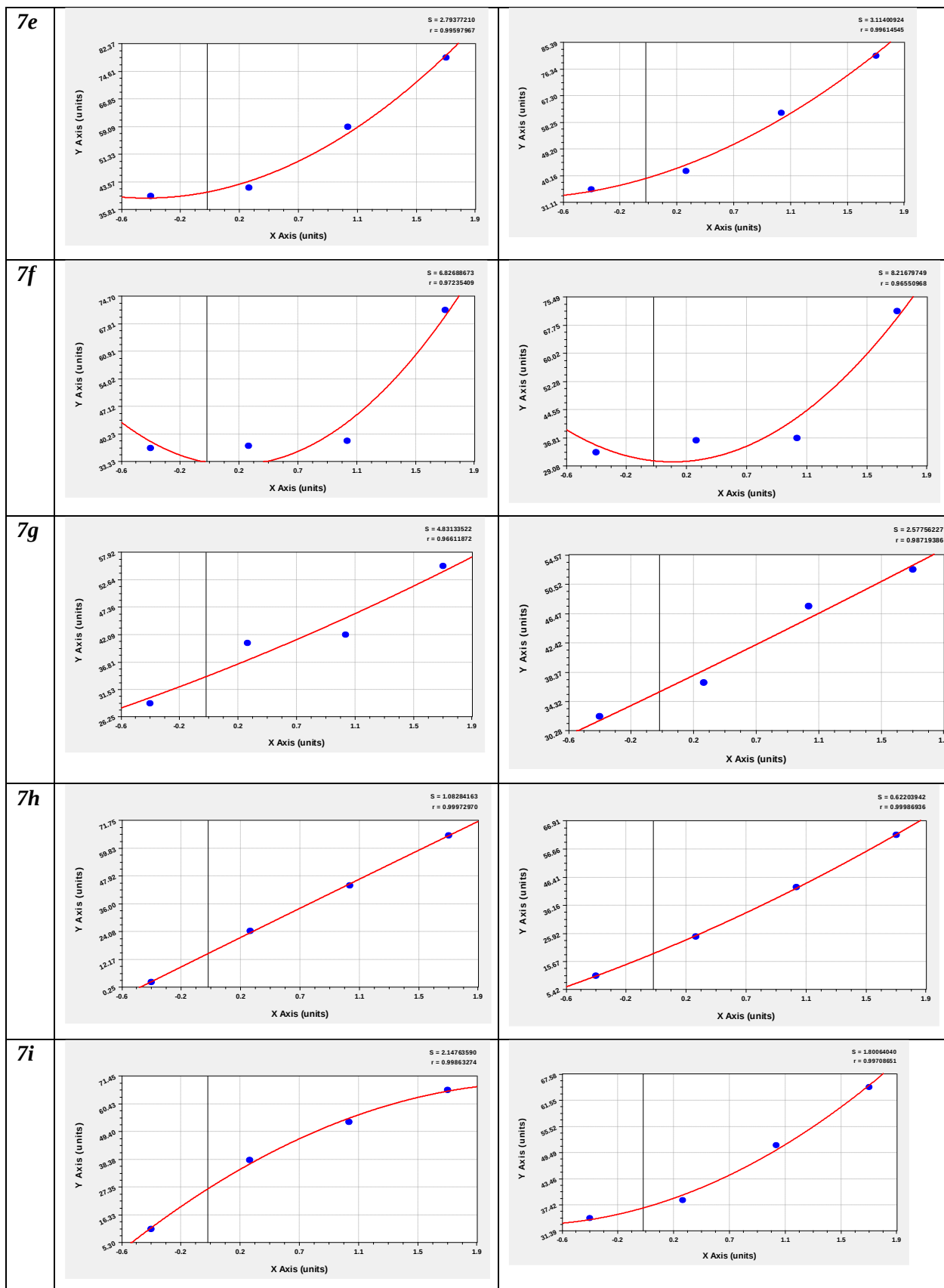


Figure S 36. 2D interaction of donepezil in the active site of BCHE

Table S1. The IC₅₀ curve of 7a-n against AChE





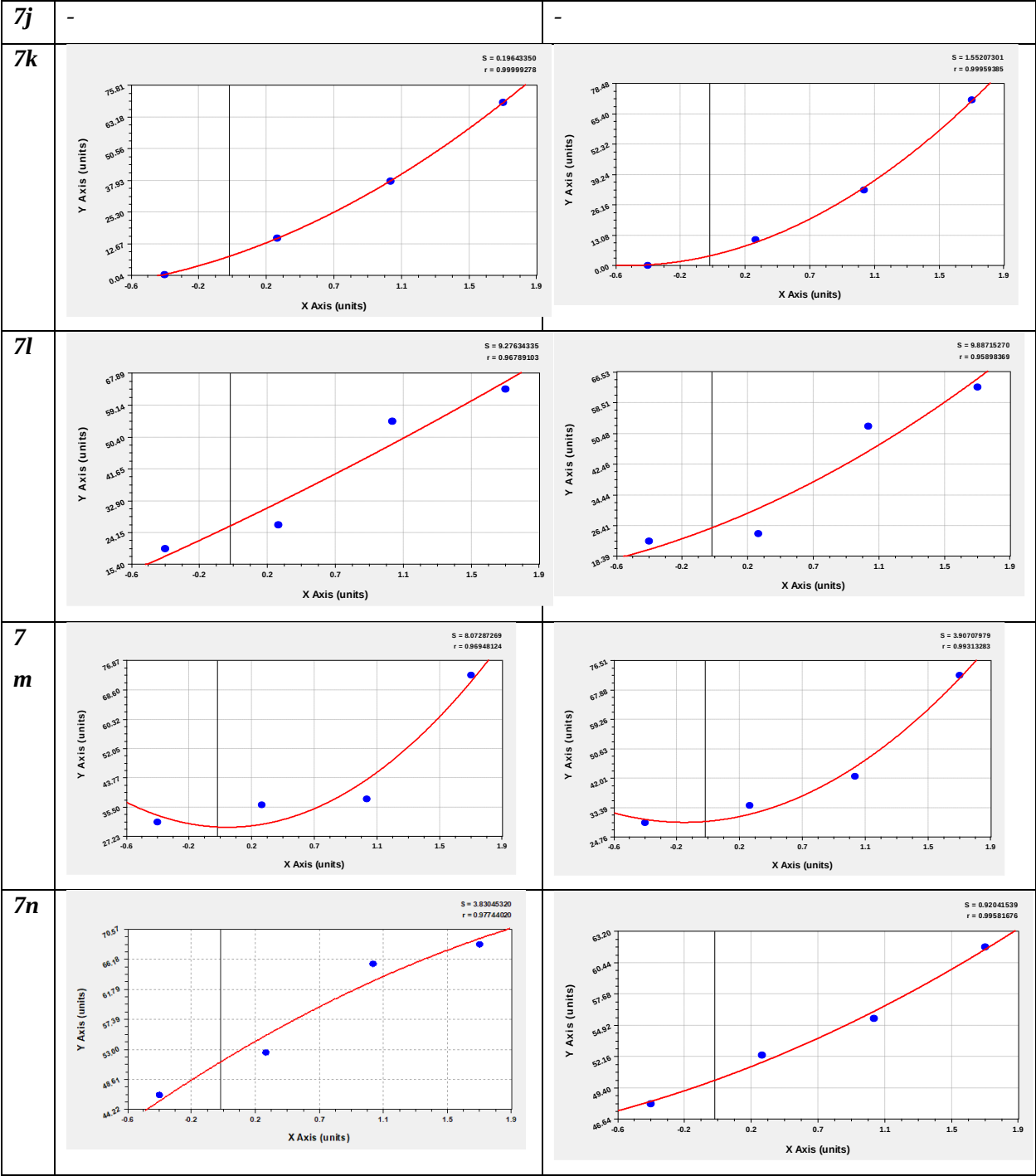


Table S2. The IC₅₀ curve of 7a-n against BChE

