

Supplemental Material

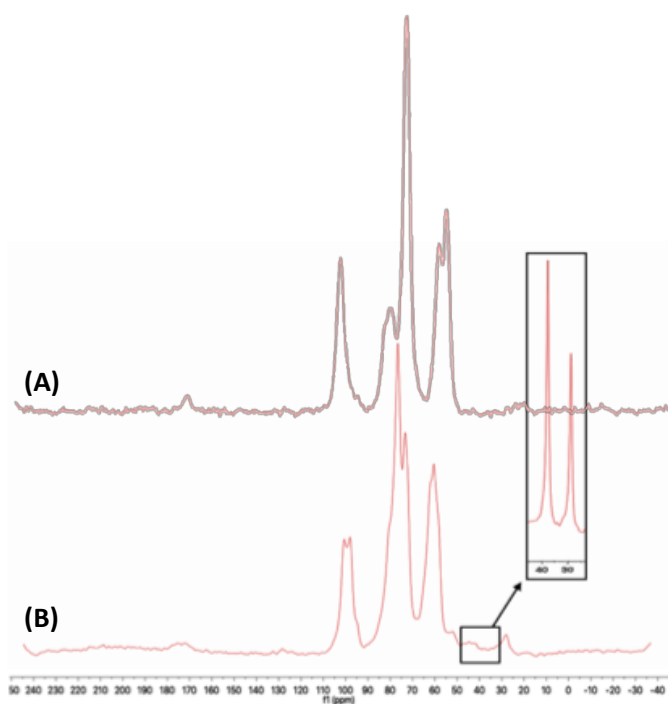


Figure S1 ^{13}C NMR spectrum of CS (A) and CS-DAA polymer (B).

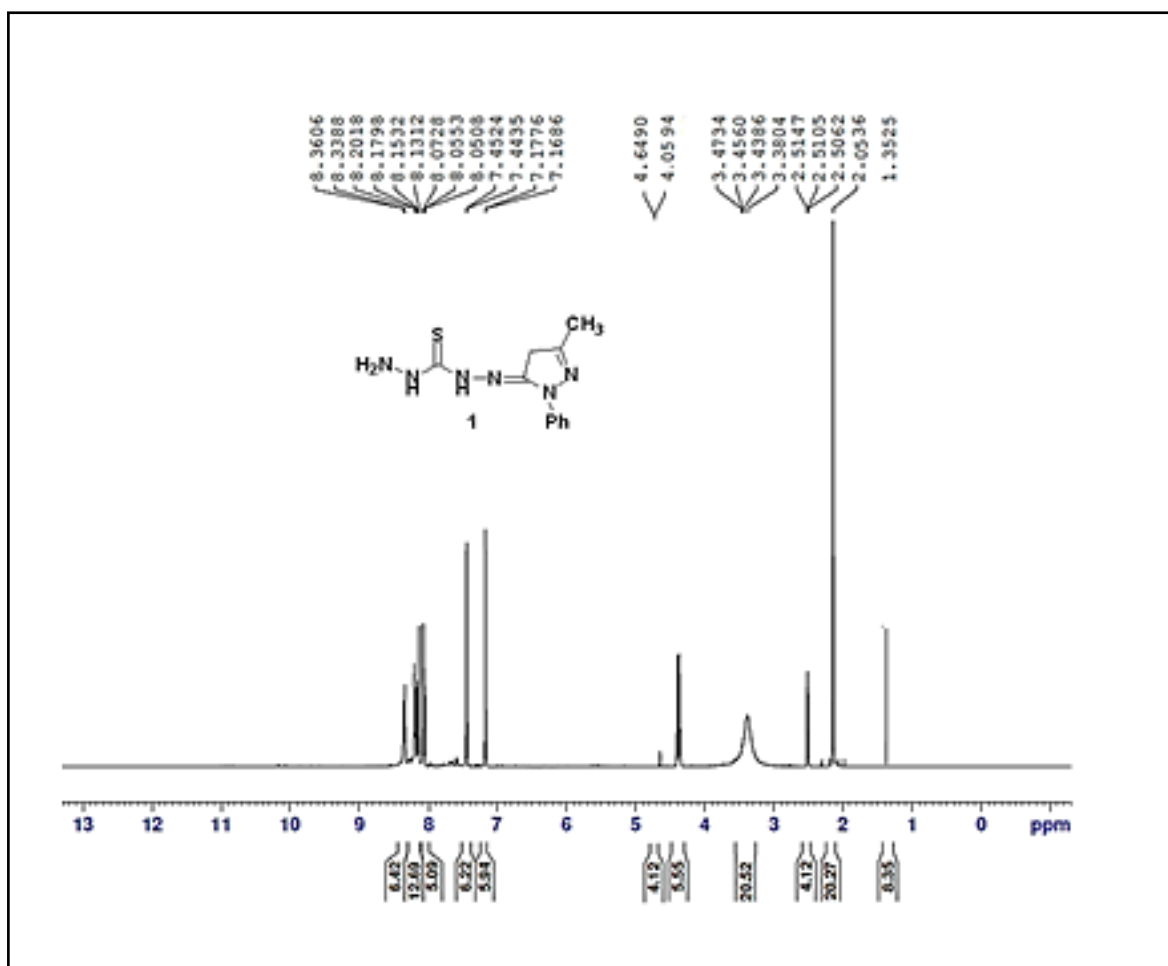


Figure S2. ^1H NMR of compound (1).

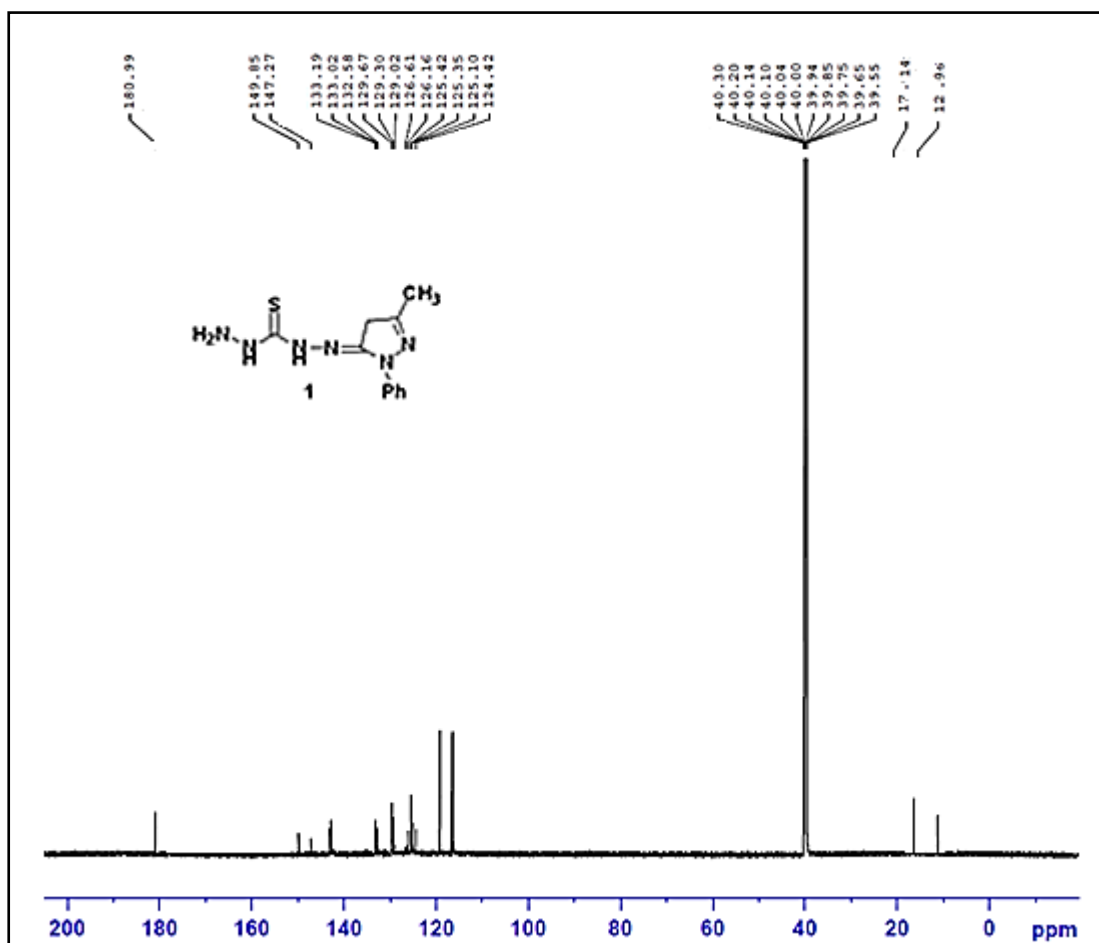


Figure S3. ^{13}C NMR of compound (1).

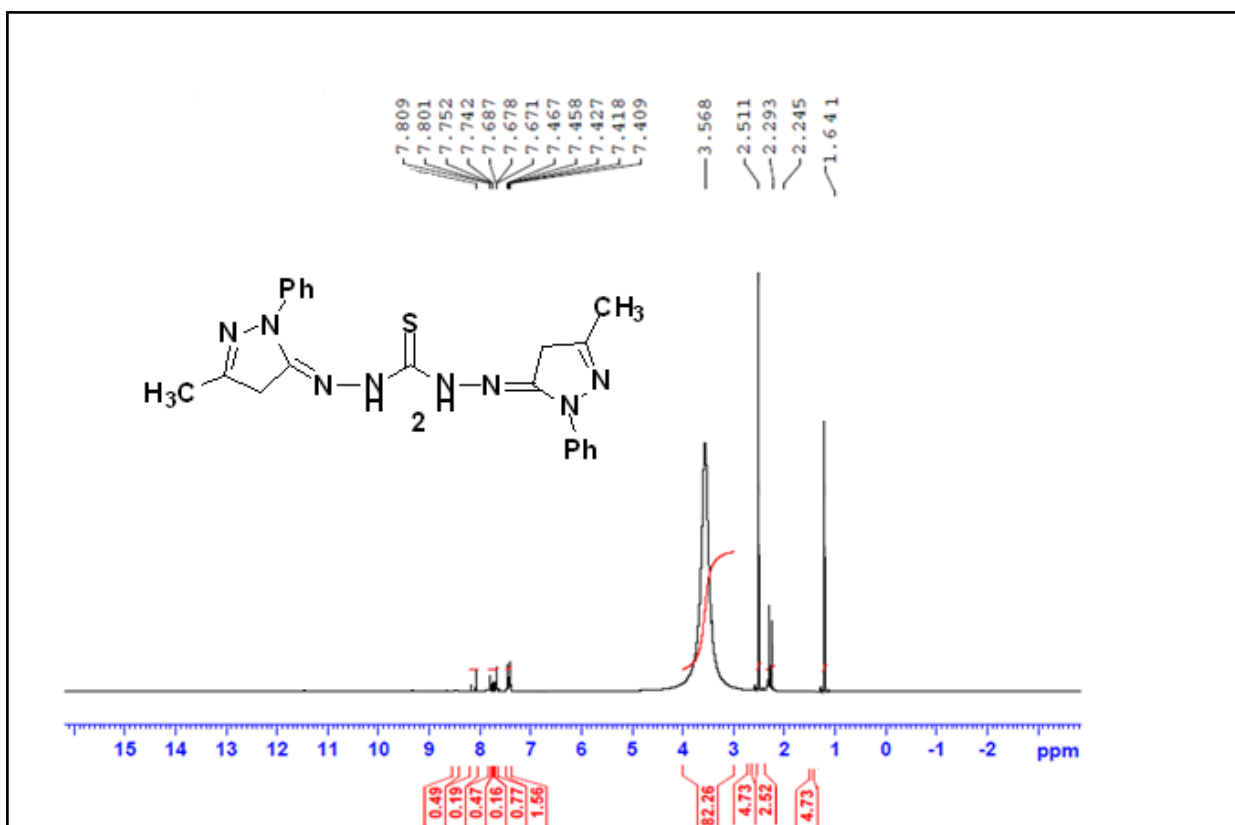


Figure S4. ¹H NMR of compound (2).

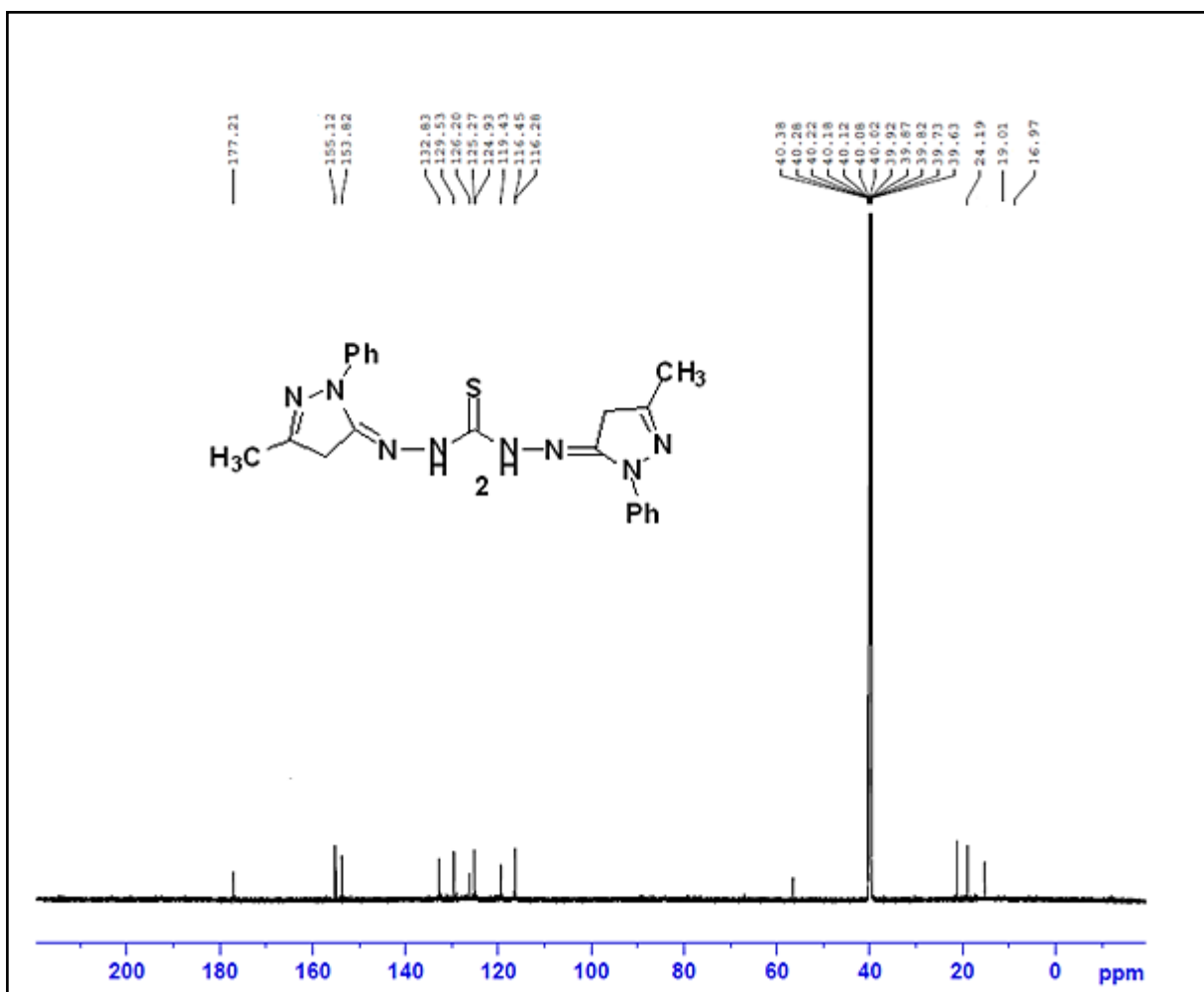


Figure S5. ^{13}C NMR of compound (2).

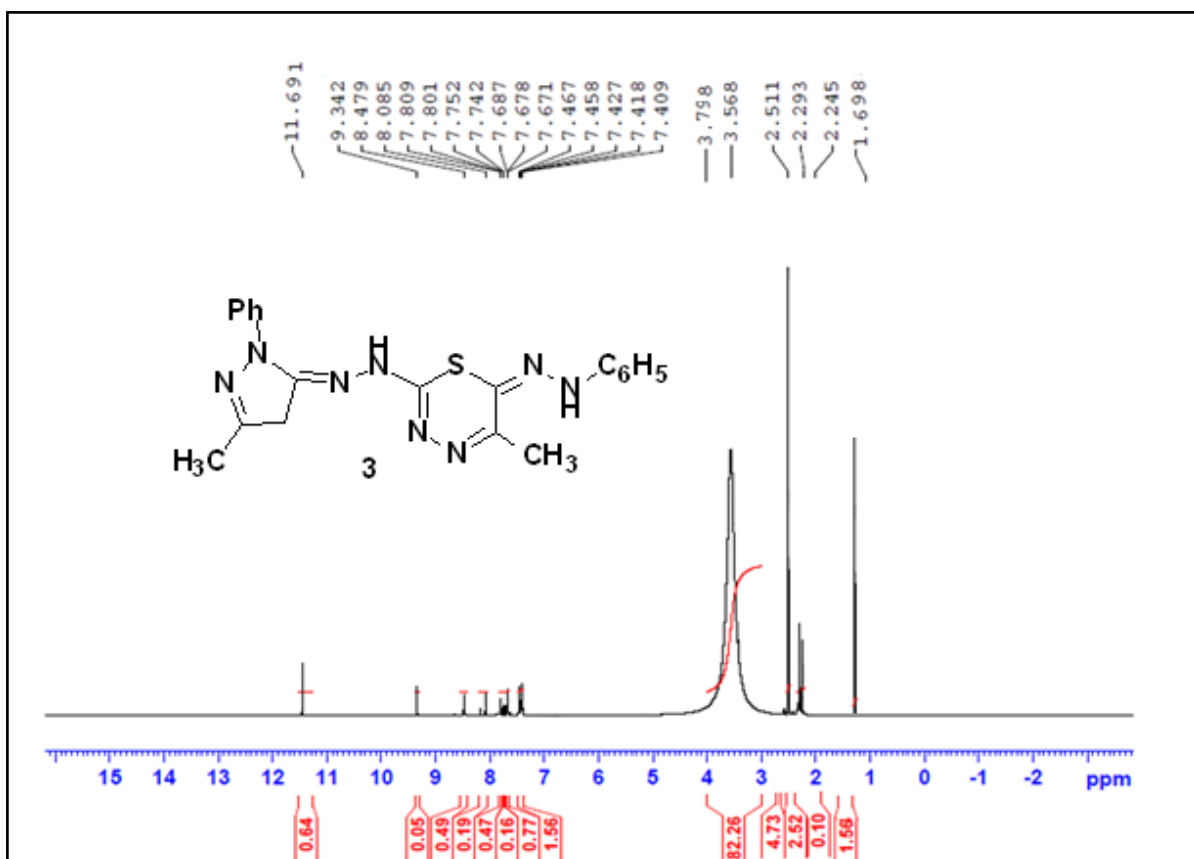


Figure S6. ¹H NMR of compound (3).

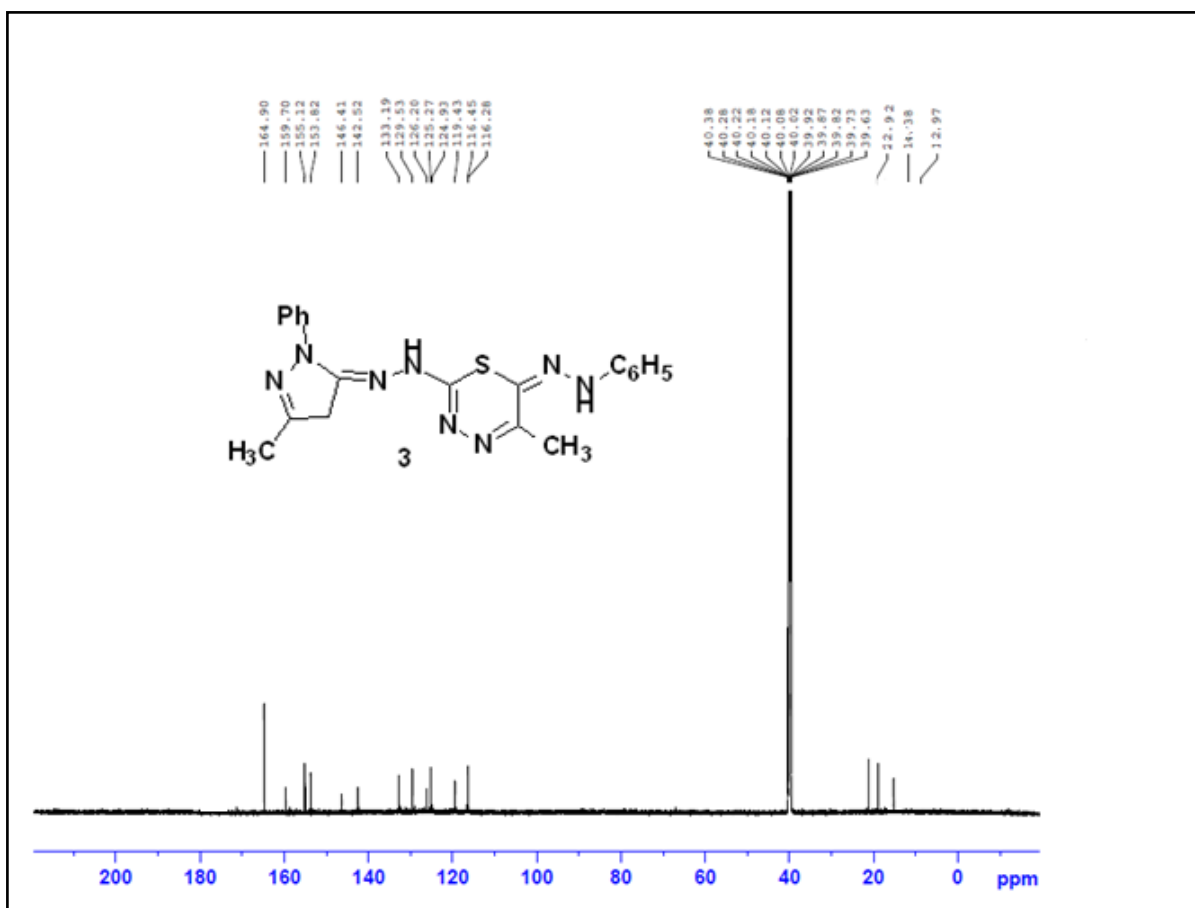


Figure S7. ¹³C NMR of compound (3).

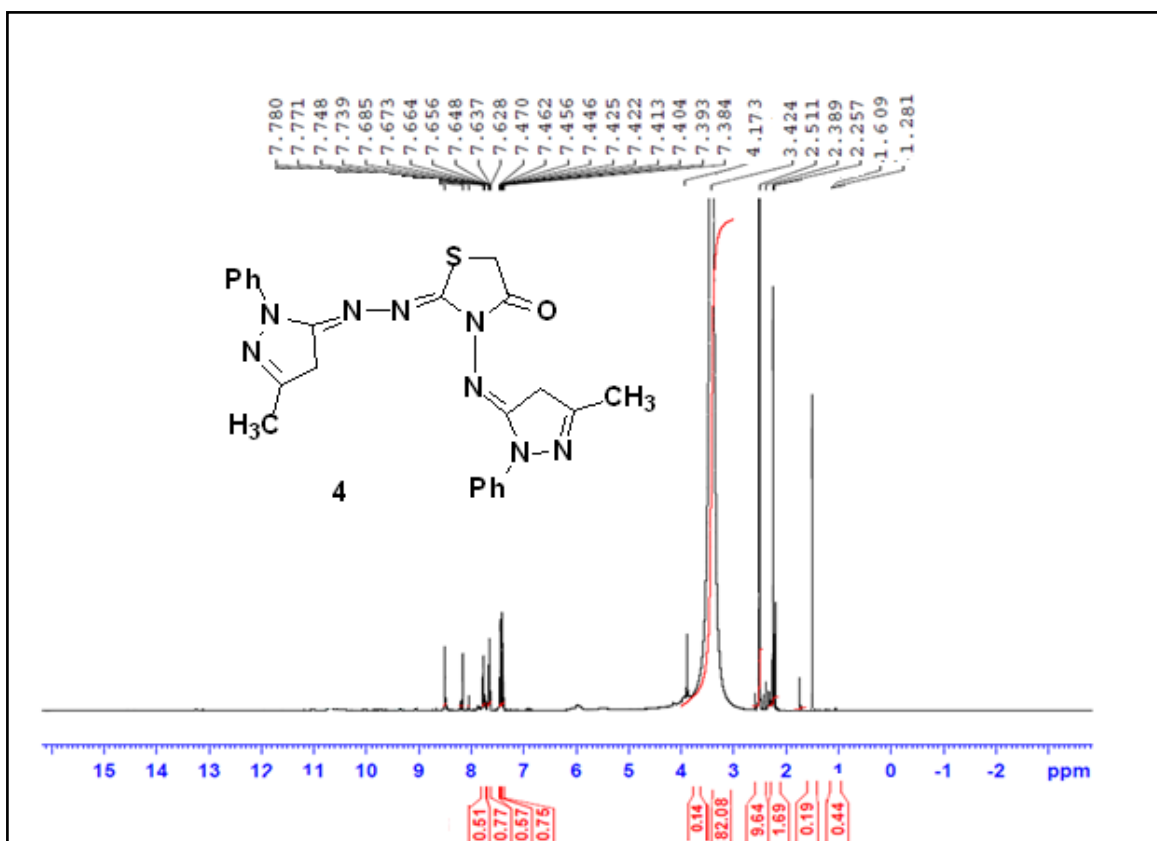


Figure S8. ¹H NMR of compound (4).

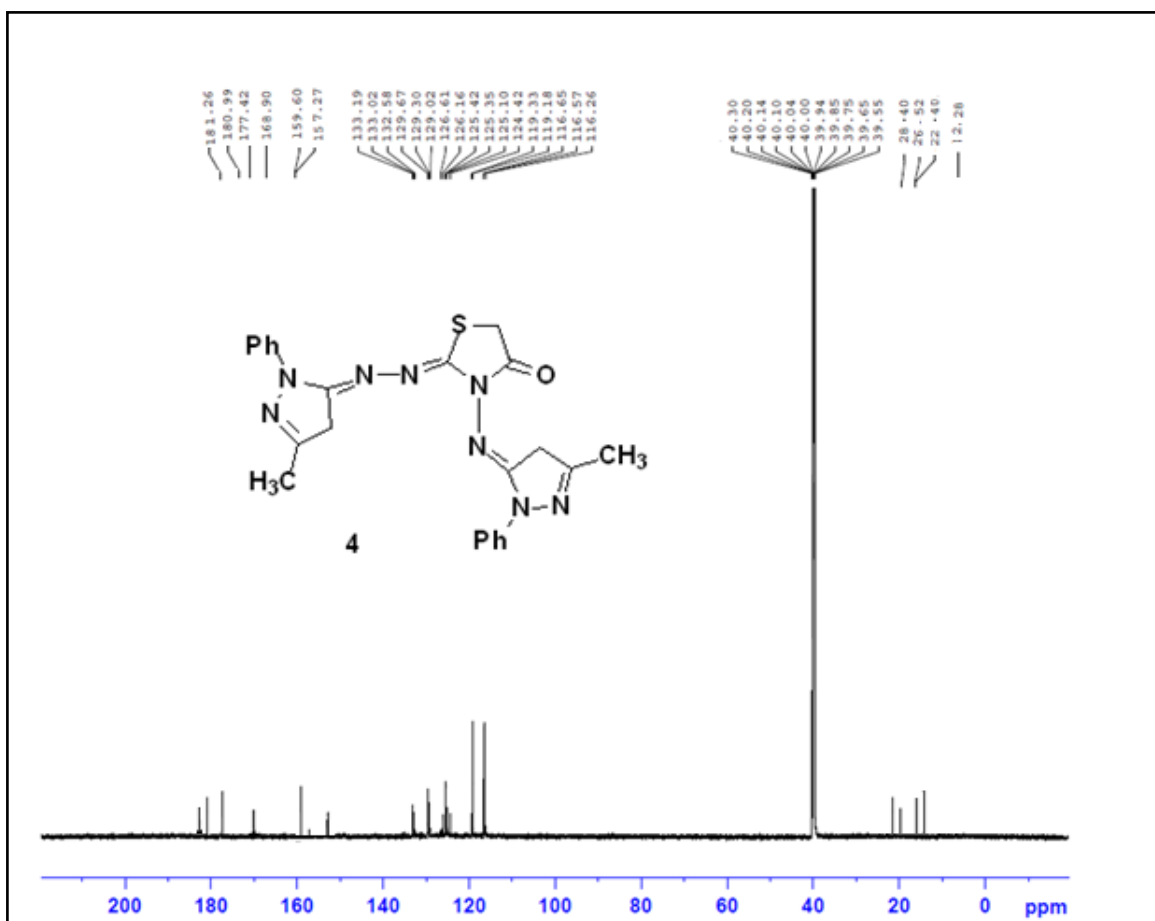


Figure S9. ¹³C NMR of compound (4).

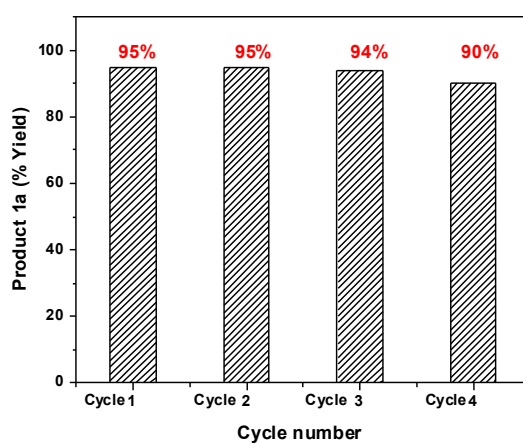


Figure S10. The reusability of the CS-DAA-MgO nanocomposite as a heterogeneous base catalyst (30 wt%) for one hour.

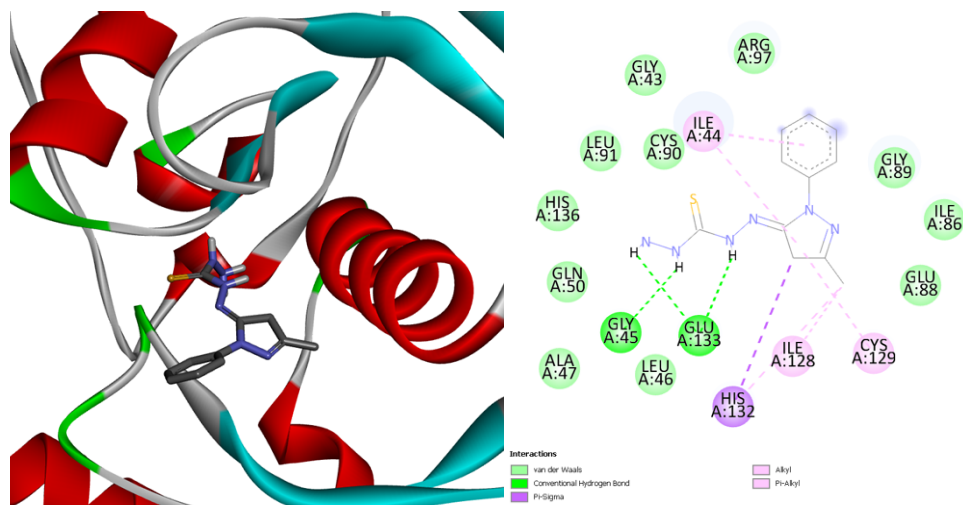


Figure S11. 3D(Left) and 2D (Right) of the binding interactions of compound (1) with the active site of *Escherichia coli*.

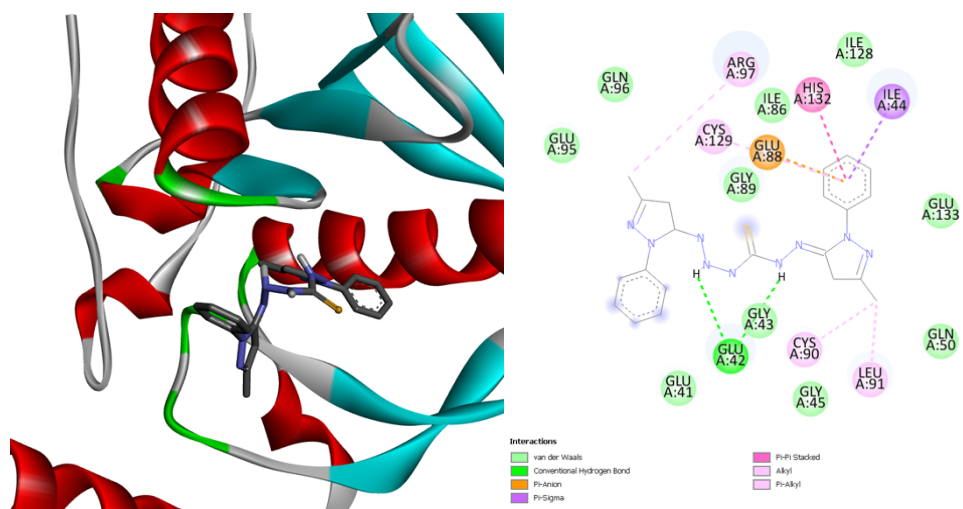


Figure S12. 3D(Left) and 2D (Right) of the binding interactions of compound (2) with the active site of *Escherichia coli*.

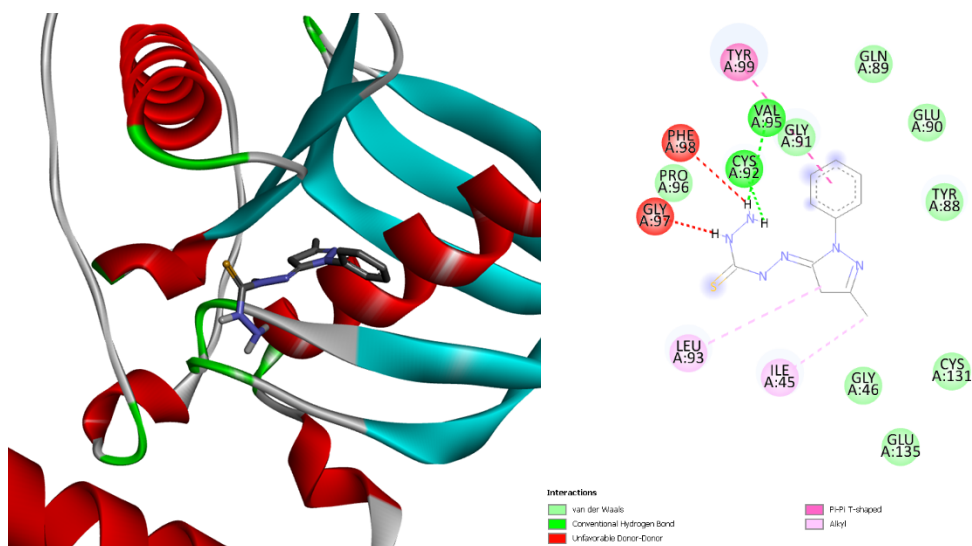


Figure S13. 3D(Left) and 2D (Right) of the binding interactions of compound (1) with the active site of *Pseudomonas aeruginosa*.

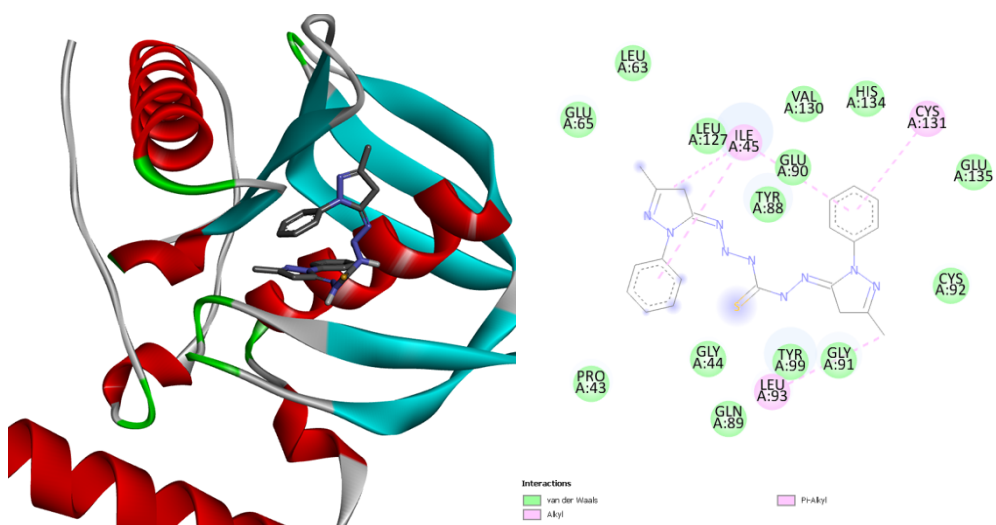


Figure S14. 3D(Left) and 2D (Right) of the binding interactions of compound (2) with the active site of *Pseudomonas aeruginosa*.

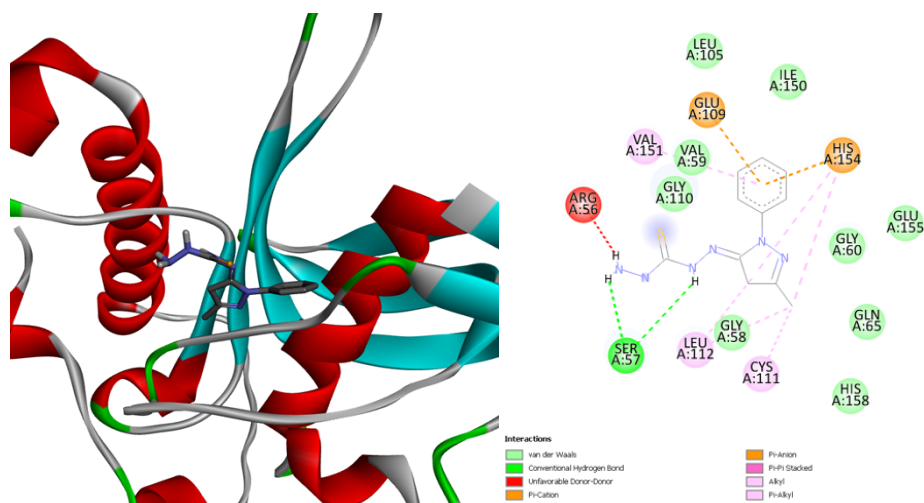


Figure S15. 3D(Left) and 2D (Right) of the binding interactions of compound (1) with the active site of *Staphylococcus aureus*.

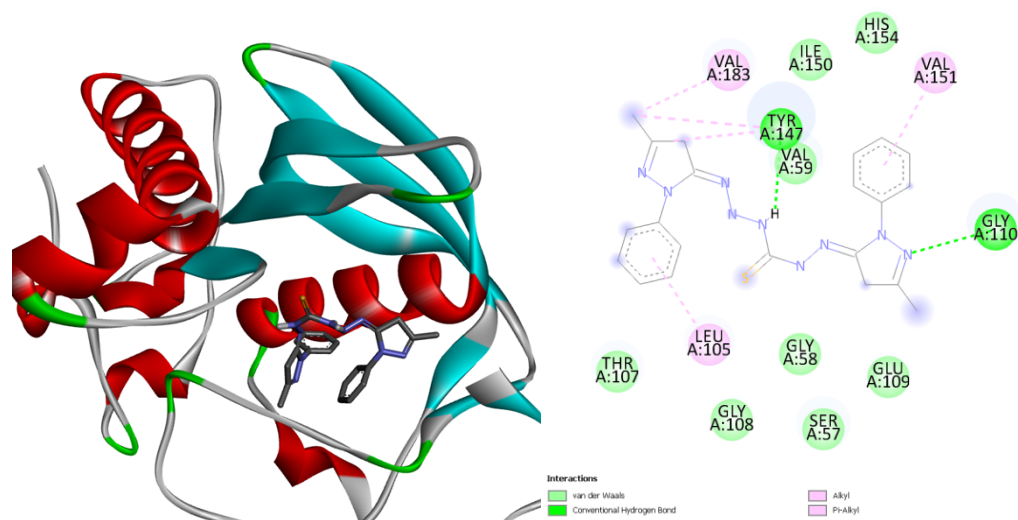


Figure S16. 3D(Left) and 2D (Right) of the binding interactions of compound (2) with the active site of *Staphylococcus aureus*.

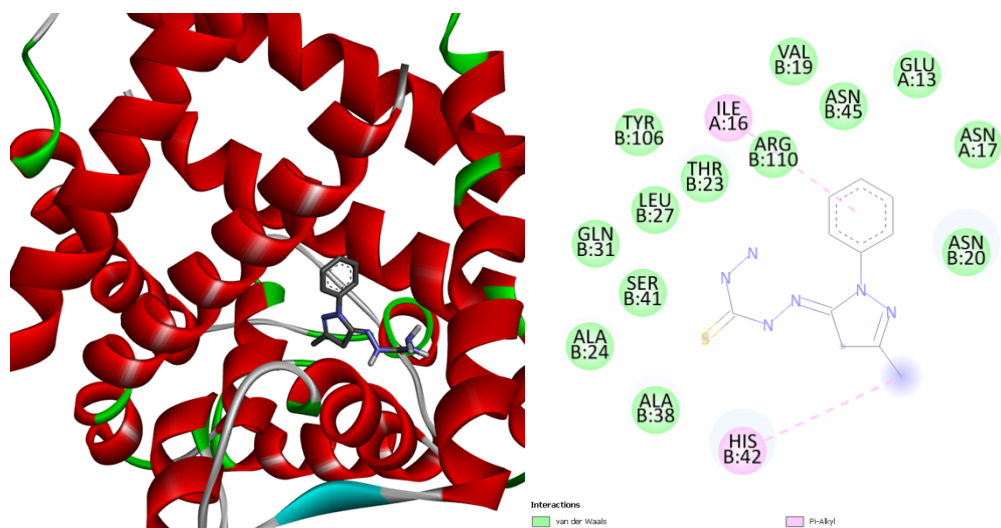


Figure S17. 3D(Left) and 2D (Right) of the binding interactions of compound (1) with the active site of *Staphylococcus epidermidis*.

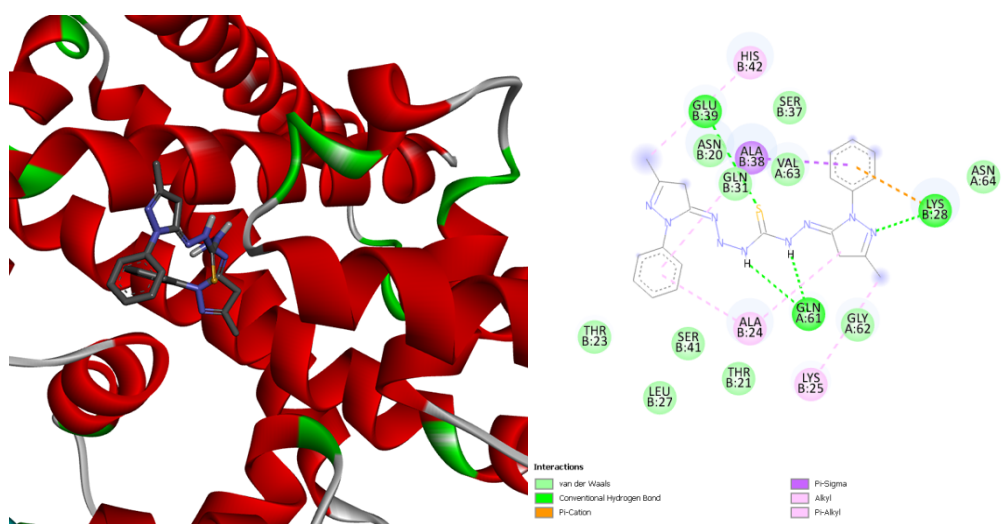


Figure S18. 3D(Left) and 2D (Right) of the binding interactions of compound (2) with the active site of *Staphylococcus epidermidis*.