

## Supplementary material

### **Effect of hydroxytyrosol derivatives of Donepezil on the activity of enzymes involved in neurodegenerative diseases and oxidative damage.**

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Supplementary Figures S1 – S8: Representative experiments for the determination of the kinetic parameters of MAO-A or MAO-B activity.

Representative experiments for the determination of the kinetic parameters of MAO-A or MAO-B activity in the absence or in the presence of the indicated concentration of Donepezyl (Figure S1), HT1 (Figure S2), HT1a (Figure S3), HT2 (Figure S4), HT3 (Figure S5), HT3a (Figure S6), HT4 (Figure S7) or HT4a (Figure S8). The data were interpolated by non-linear fitting in the hyperbolic Michaelis Menten equation (panels A) or by linear fitting in the Lineweaver-Burk equation (panels B) using the Kaleidagraph application (Synergy) version 5.0.4 for Apple MacOS. Fitting parameters furnished by the application were reported at the bottom of each graph.

Figure S1\_A. Effect of Donepezyl on the kinetics data of MAO-A activity.

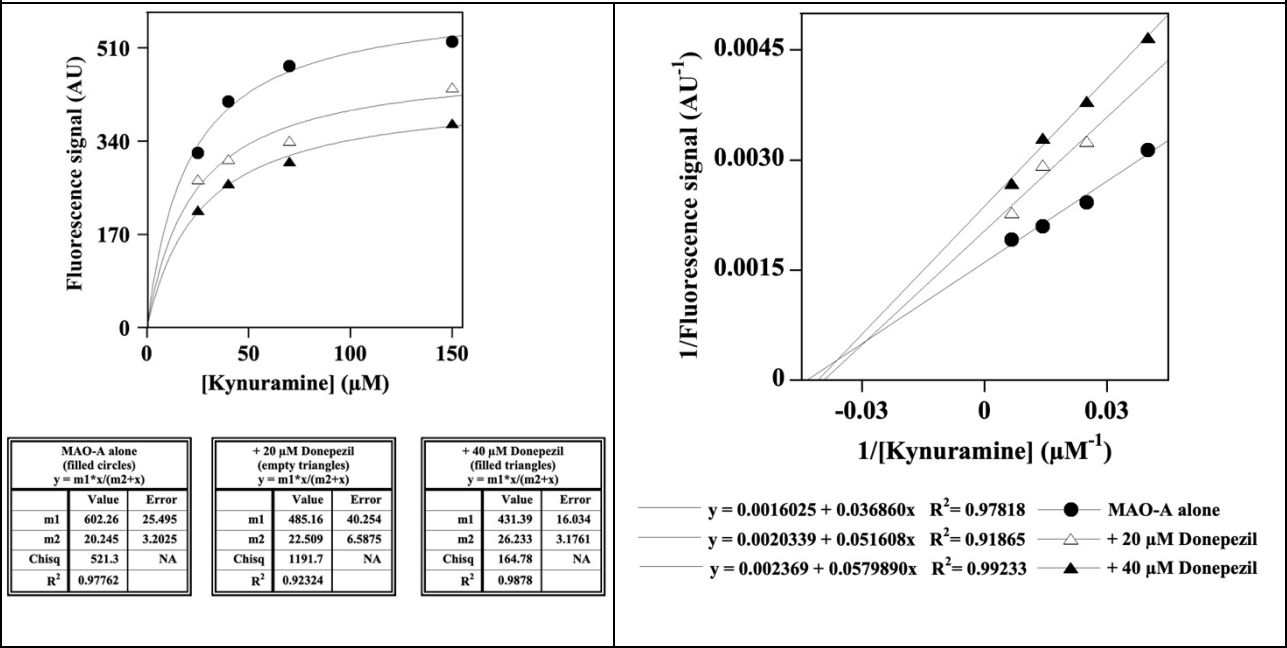


Figure S1\_B. Effect of Donepezyl on the kinetics data of MAO-B activity.

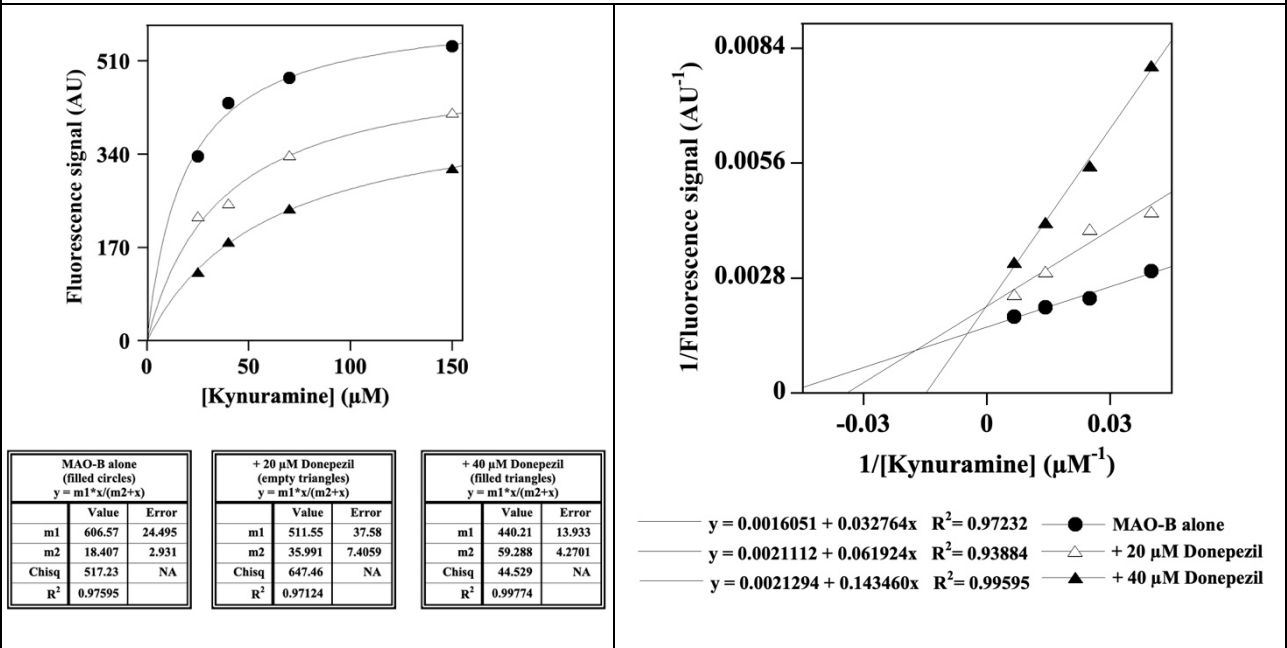


Figure S2\_A. Effect of HT1 on the kinetics data of MAO-A activity.

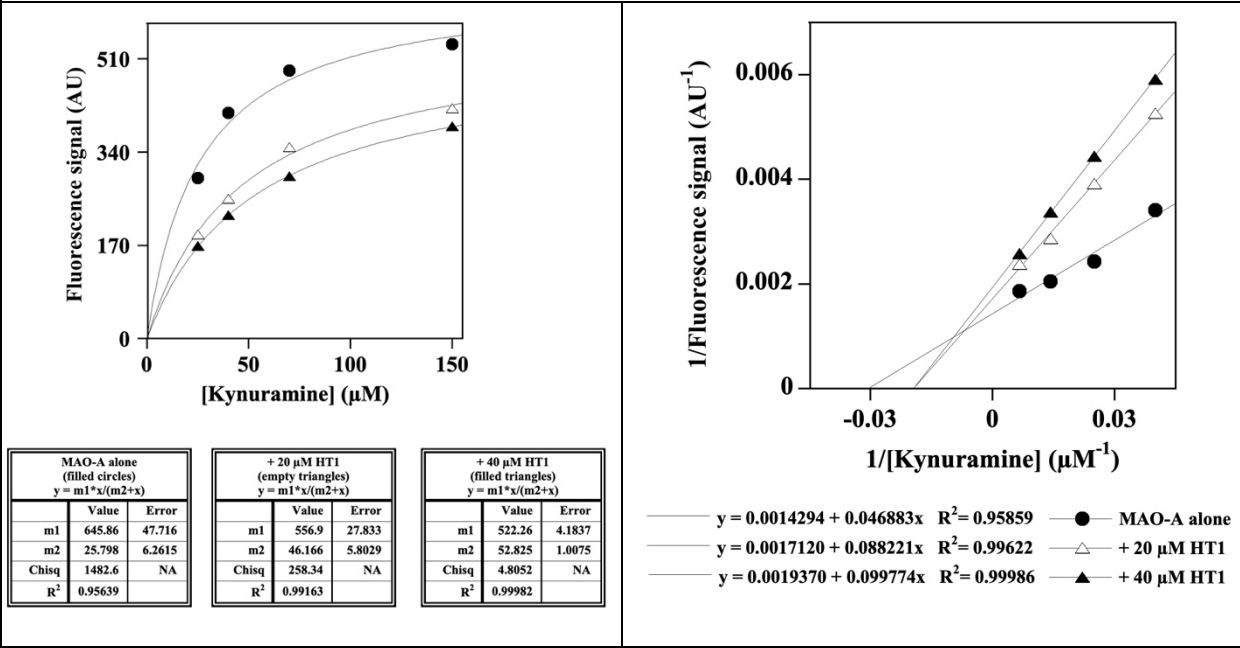


Figure S2\_B. Effect of HT1 on the kinetics data of MAO-B activity.

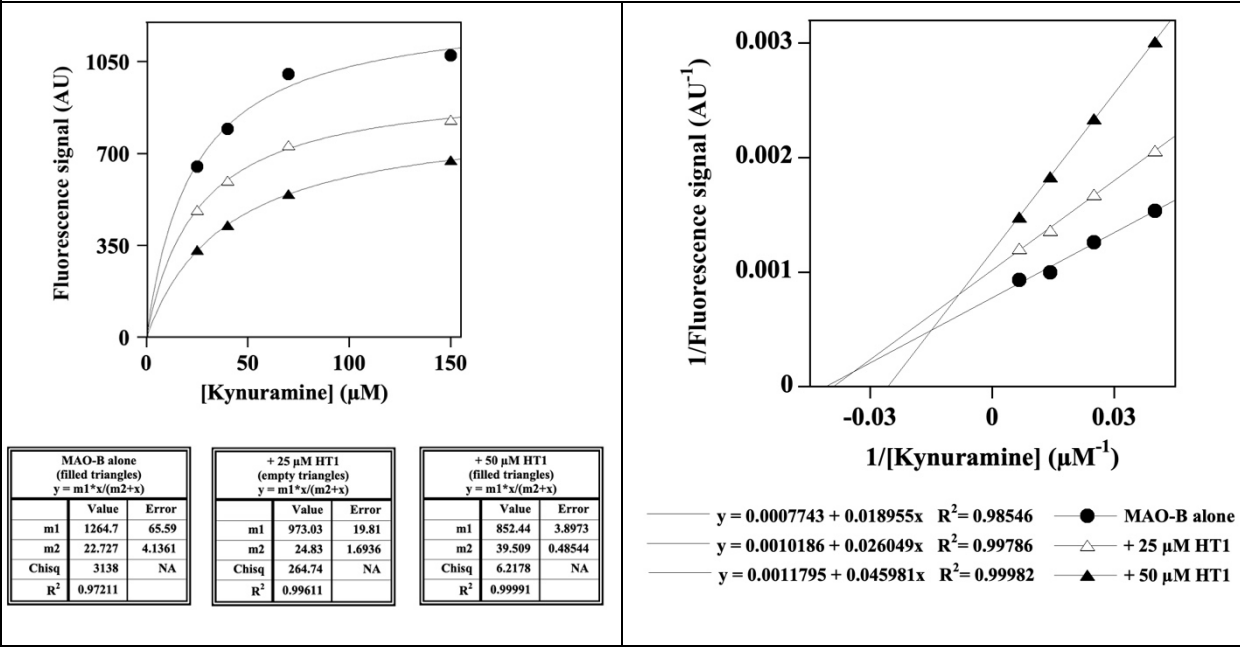


Figure S3\_A. Effect of HT1a on the kinetics data of MAO-A activity.

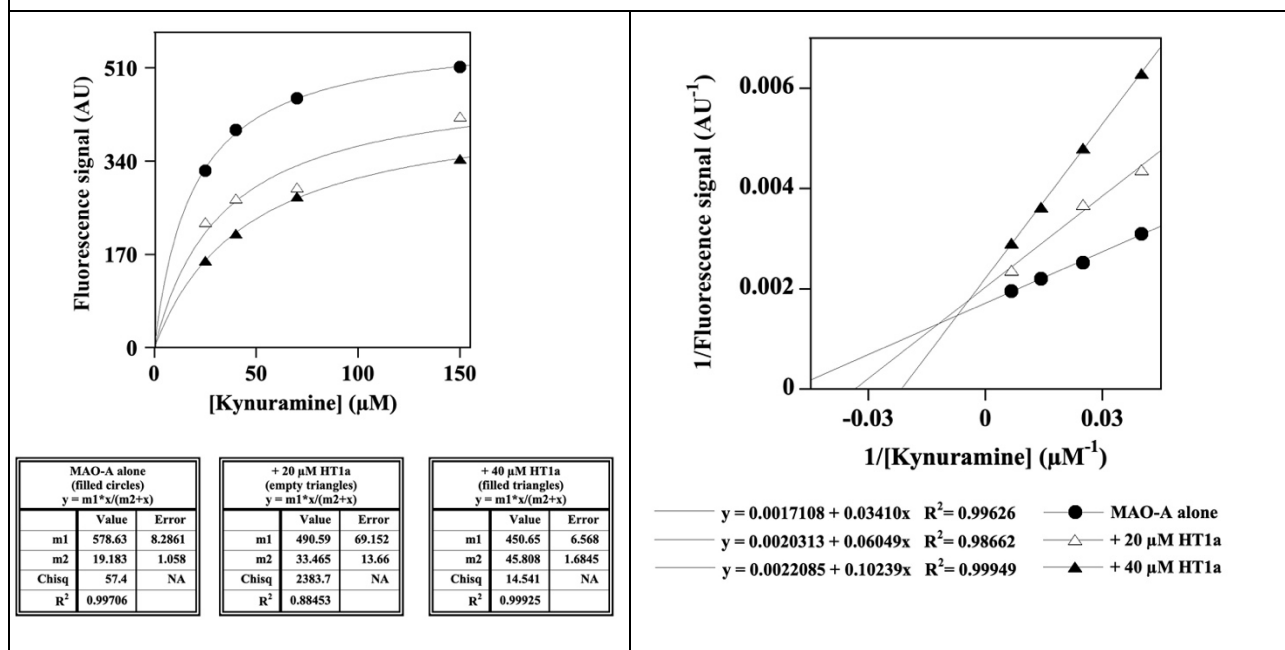


Figure S3\_B. Effect of HT1a on the kinetics data of MAO-B activity.

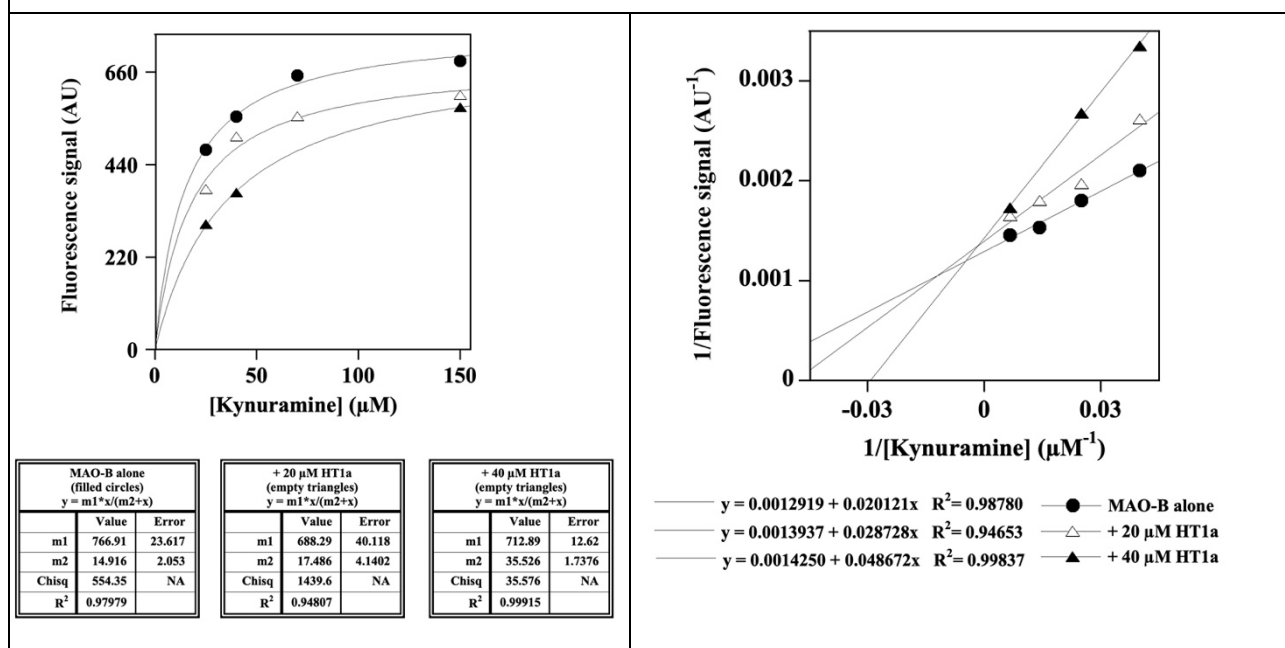


Figure S4\_A. Effect of HT2 on the kinetics data of MAO-A activity.

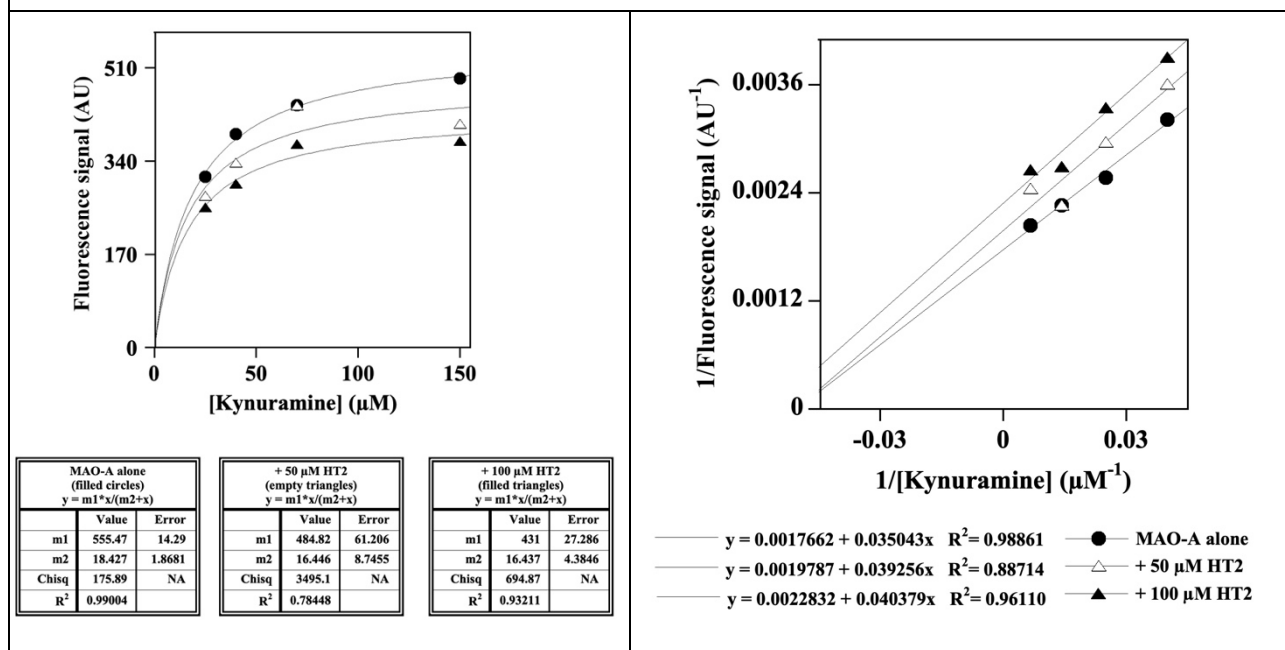


Figure S4\_B. Effect of HT2 on the kinetics data of MAO-B activity.

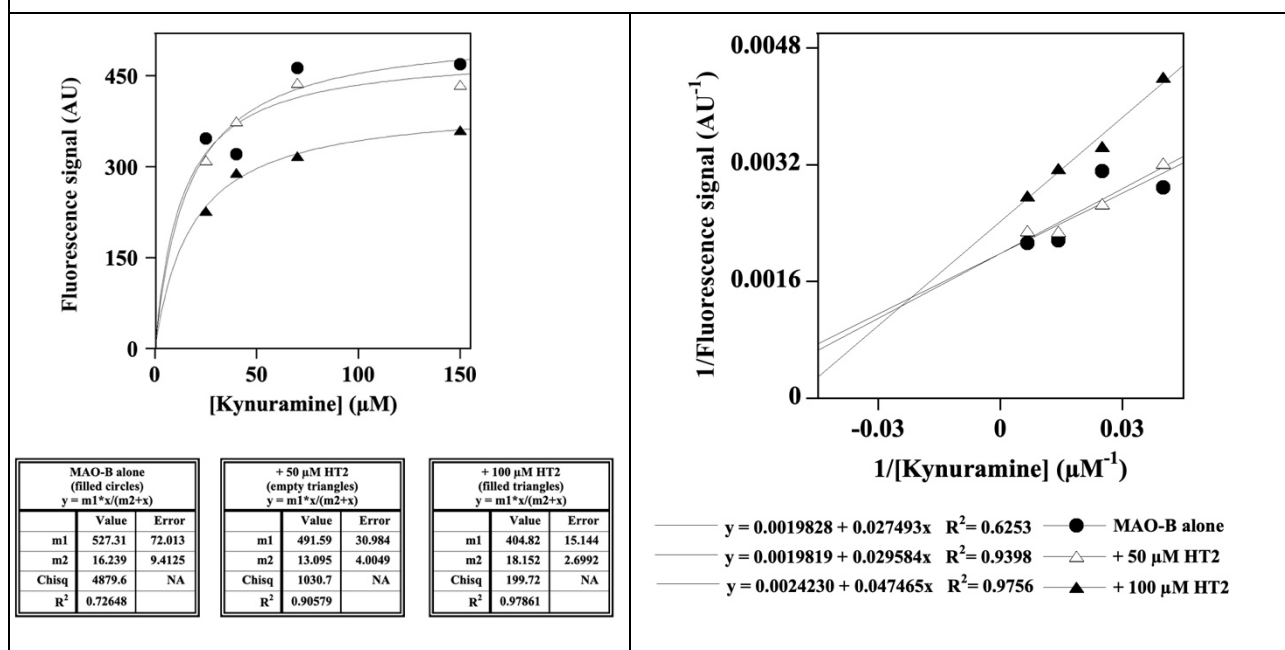


Figure S5\_A. Effect of HT3 on the kinetics data of MAO-A activity.

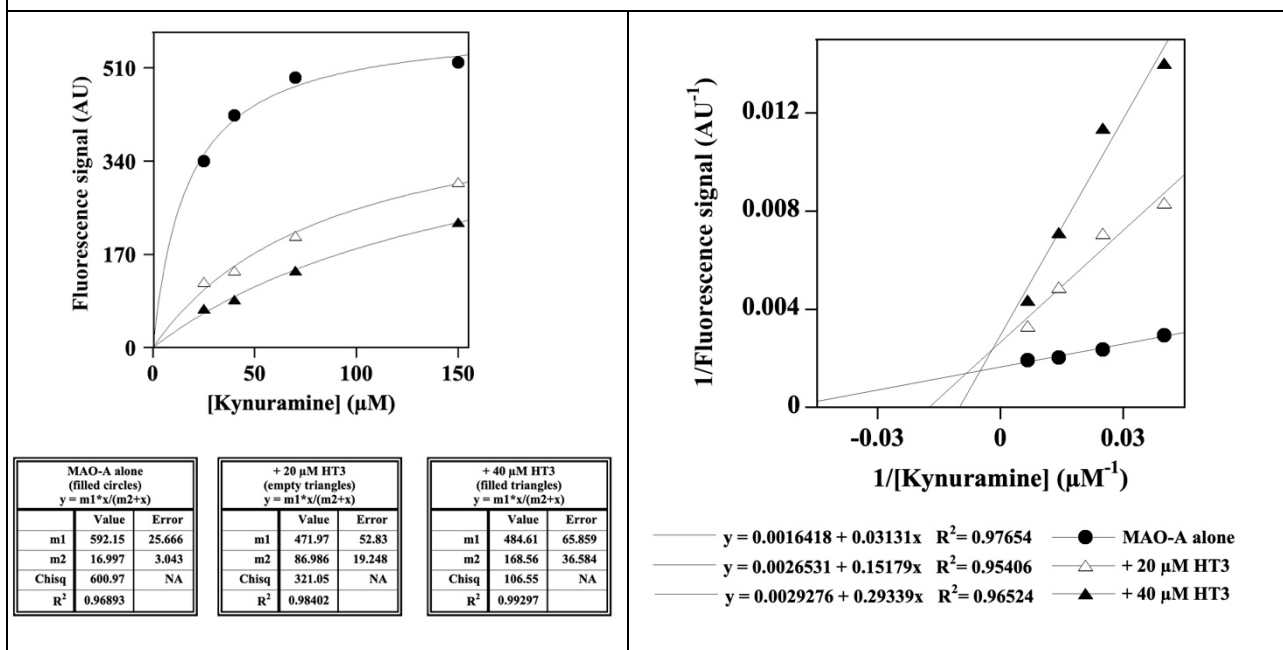


Figure S5\_B. Effect of HT3 on the kinetics data of MAO-B activity.

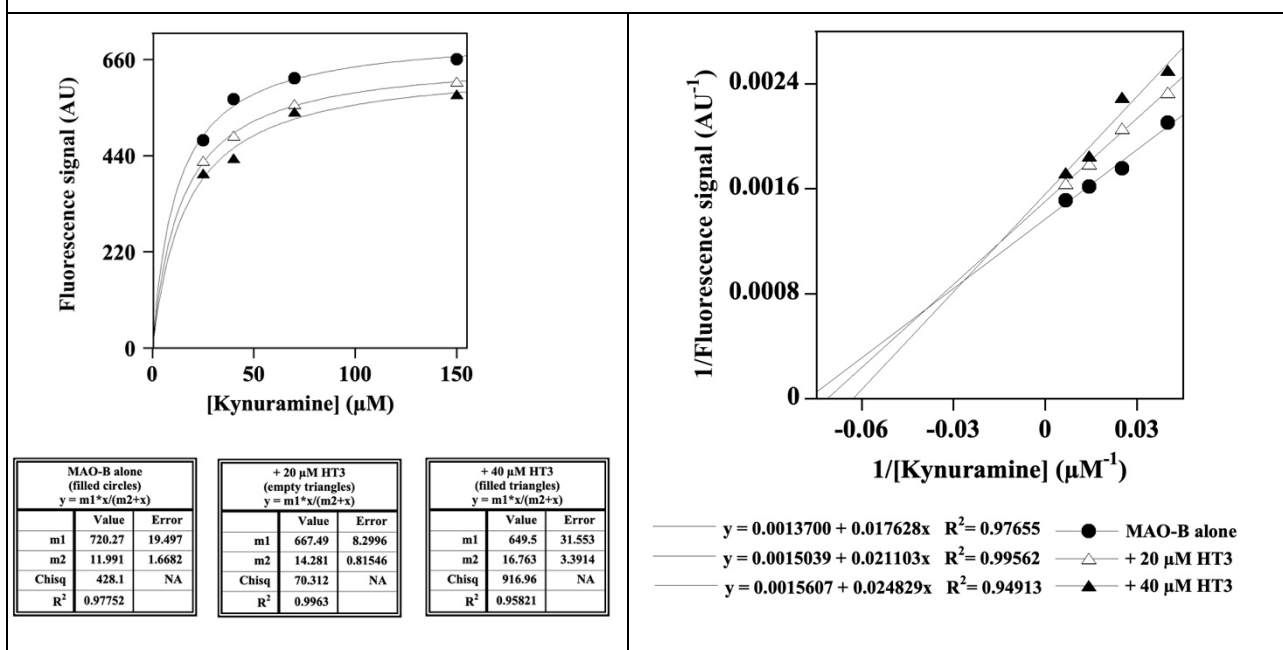


Figure S6\_A. Effect of HT3a on the kinetics data of MAO-A activity.

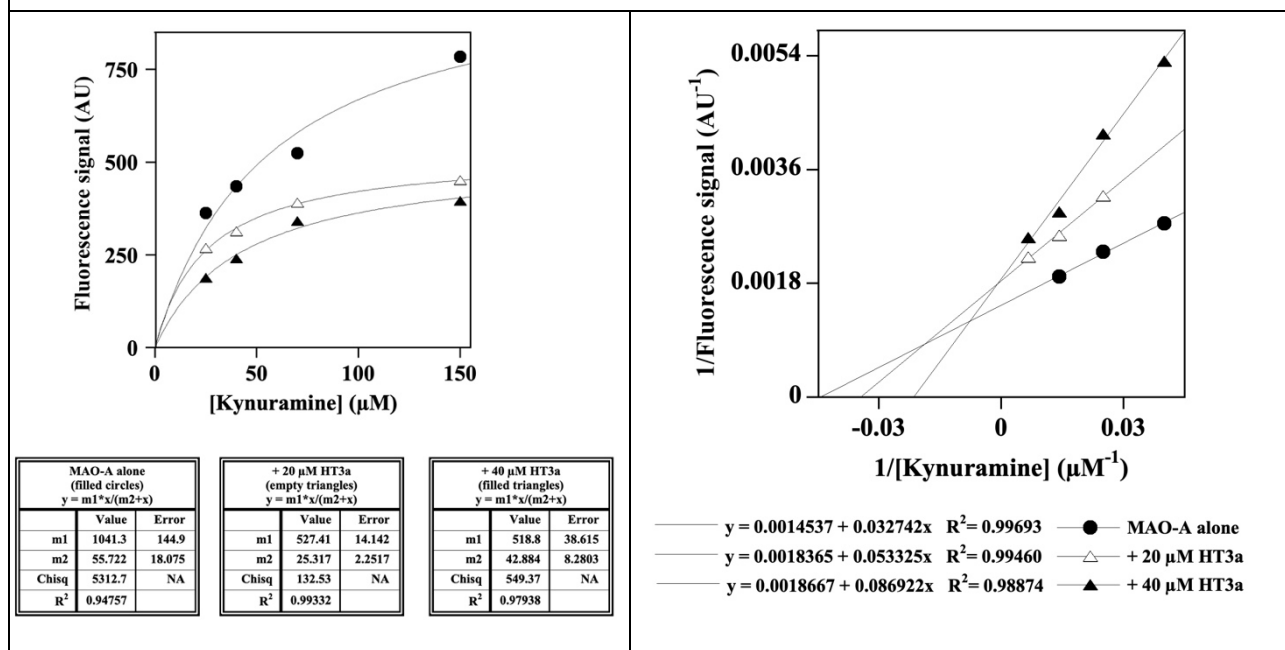


Figure S6\_B. Effect of HT3a on the kinetics data of MAO-B activity.

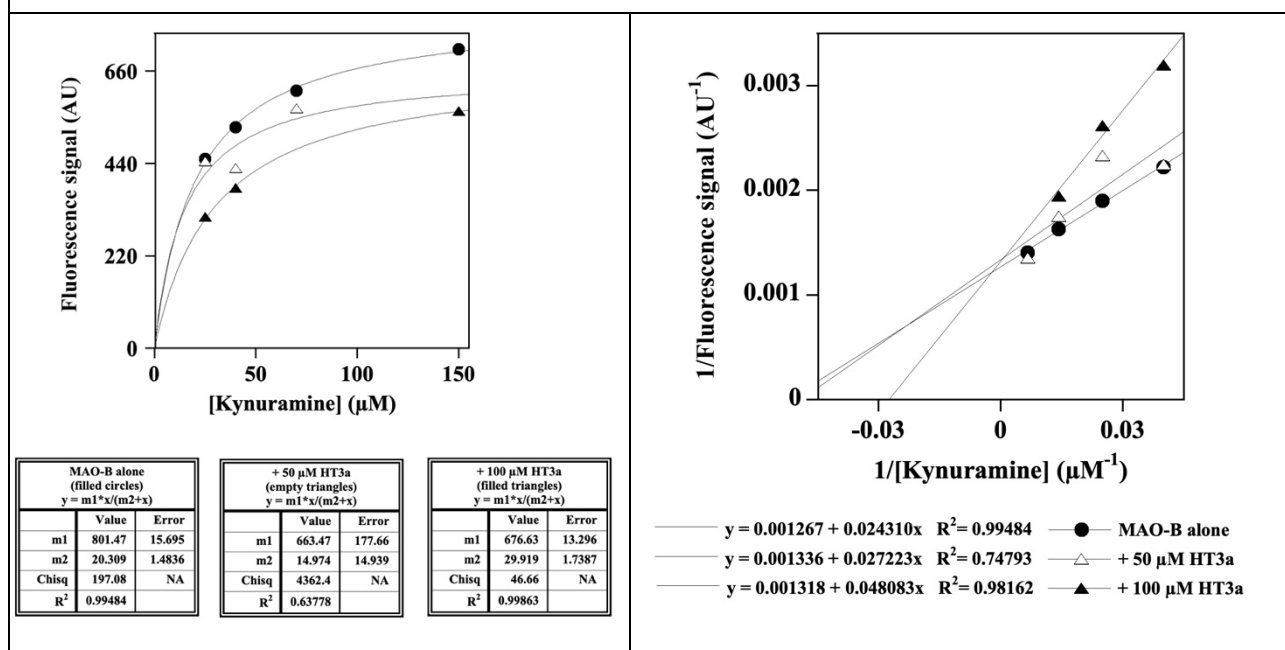




Figure S7\_A. Effect of HT4 on the kinetics data of MAO-A activity.

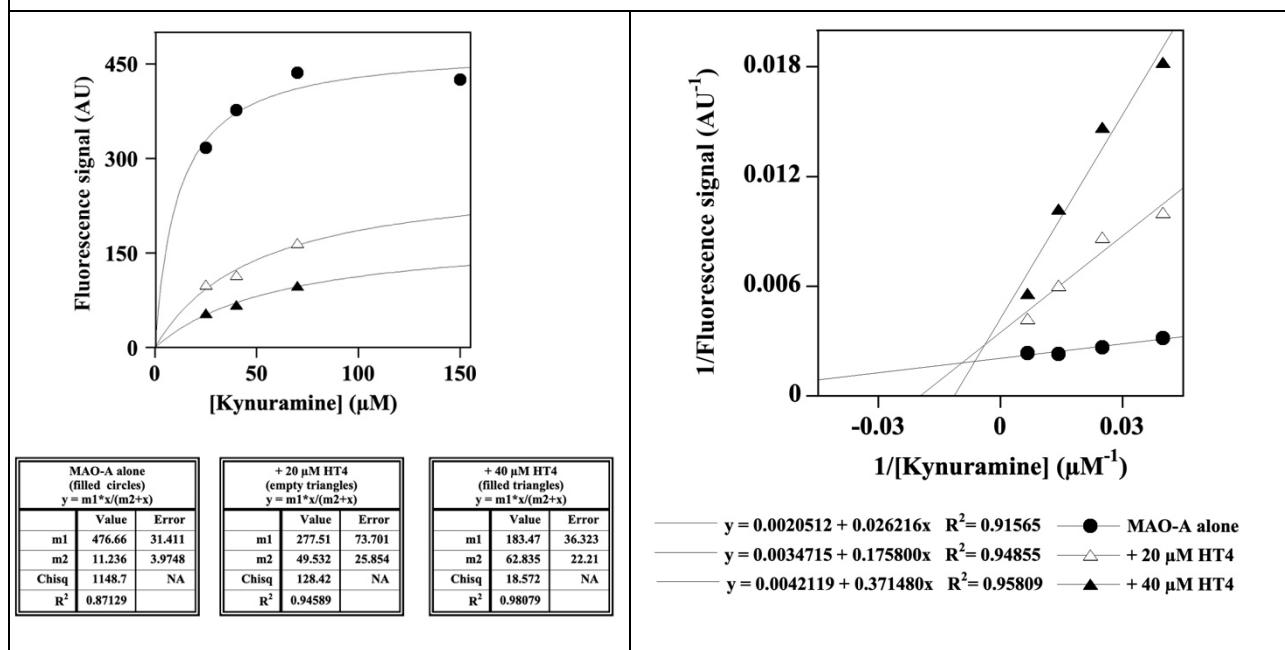


Figure S7\_B. Effect of HT4 on the kinetics data of MAO-B activity.

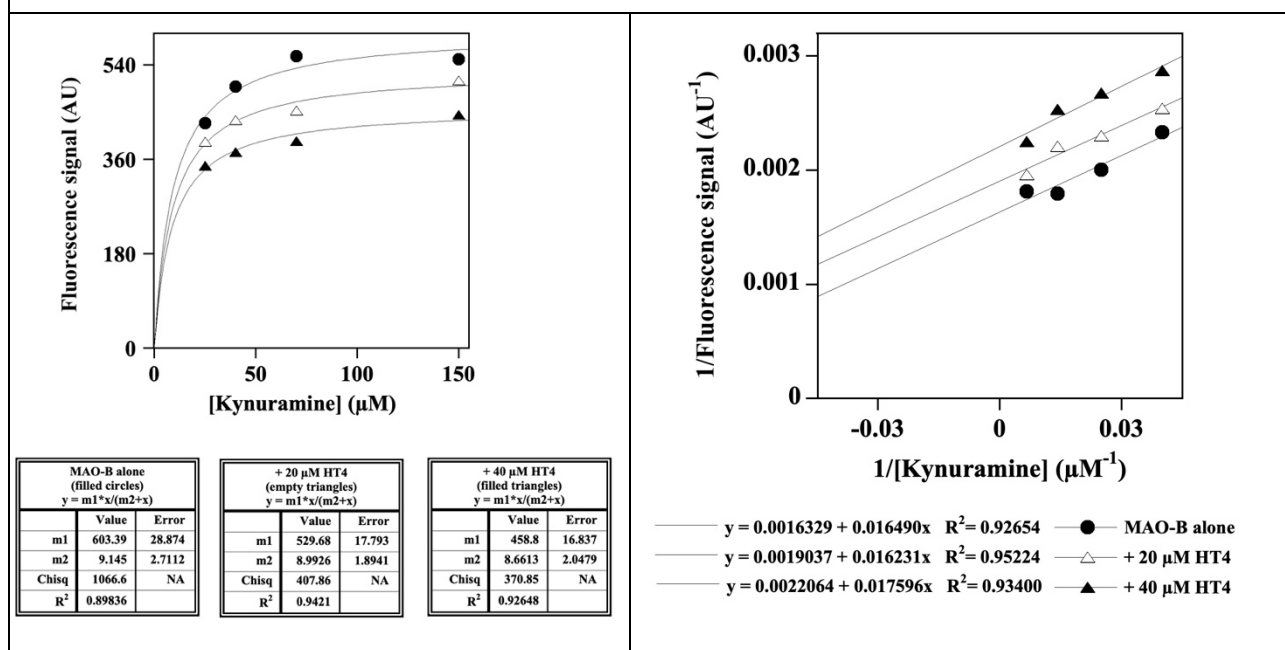


Figure S8\_A. Effect of HT4a on the kinetics data of MAO-A activity.

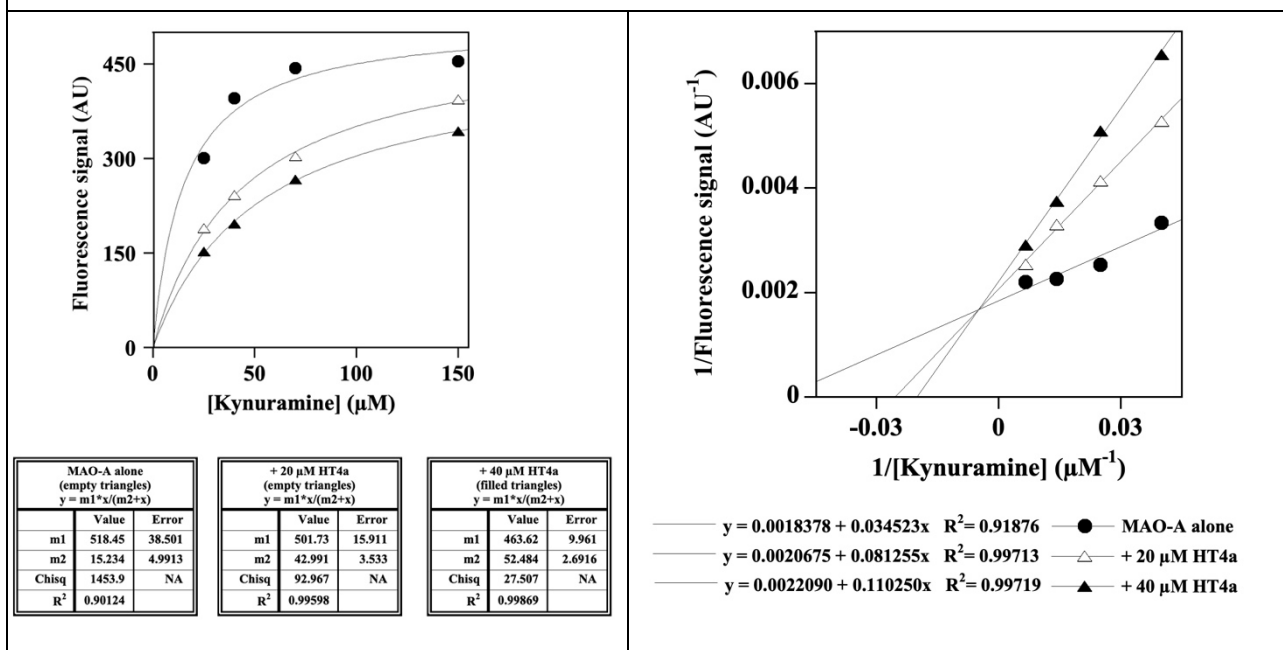


Figure S8\_B. Effect of HT4a on the kinetics data of MAO-B activity.

