

Supplementary Materials: Pyridine and *p*-Nitro-Phenyl Oxime Esters with Possible Photo-Chemotherapeutic Activity. Synthesis, DNA Photo-Cleavage and DNA Binding Studies

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Table of contents

Figure S1. UV absorption spectra of <i>p</i> -NO ₂ -benzoyl conjugated amidoximes 1–5 and pyridoyl conjugated amidoximes 6–10 .	S2
Figure S2. UV absorption spectra of <i>p</i> -NO ₂ -benzoyl and pyridoyl conjugated ethanone oximes 11 and 12 , respectively.	S2
Figure S3. UV absorption spectra of <i>p</i> -NO ₂ -benzoyl conjugated aldoximes 12–16 and pyridoyl conjugated aldoximes 17–21 .	S2
Figure S4. UV spectra of DMSO solution of compound (A) 5 (5×10^{-5} M), (B) 12 (1×10^{-4} M) and (C) 15 (2×10^{-5} M) in the presence of increasing amounts of CT DNA ($r' = [\text{DNA}]/[\text{compound}] = 0\text{--}0.8$). The arrows show the changes upon increasing amounts of CT DNA.	S3
Figure S5. Plot of $\frac{[\text{DNA}]}{(\epsilon_A - \epsilon_f)}$ versus [DNA] for compound (A) 1 , (B) 3 , (C) 8 , (D) 9 , (E) 12 , (F) 14 and (G) 21 .	S4
Figure S6. Fluorescence emission spectra ($\lambda_{\text{ex}} = 540$ nm) for EB-DNA ([EB] = 20 μM , [DNA] = 26 μM) in buffer solution in the absence and presence of increasing amounts of compound 1 (up to the value of $r = 0.17$). The arrow shows the changes of intensity upon increasing amounts of 1 .	S5
Figure S7. Stern-Volmer quenching plot of EB-DNA fluorescence for compound (A) 1 , (B) 2 , (C) 3 , (D) 5 , (E) 8 , (F) 9 , (G) 10 and (H) 11 .	S6
Figure S8. Stern-Volmer quenching plot of EB-DNA fluorescence for compound (A) 12 , (B) 13 , (C) 14 , (D) 15 , (E) 19 and (F) 21 .	S7

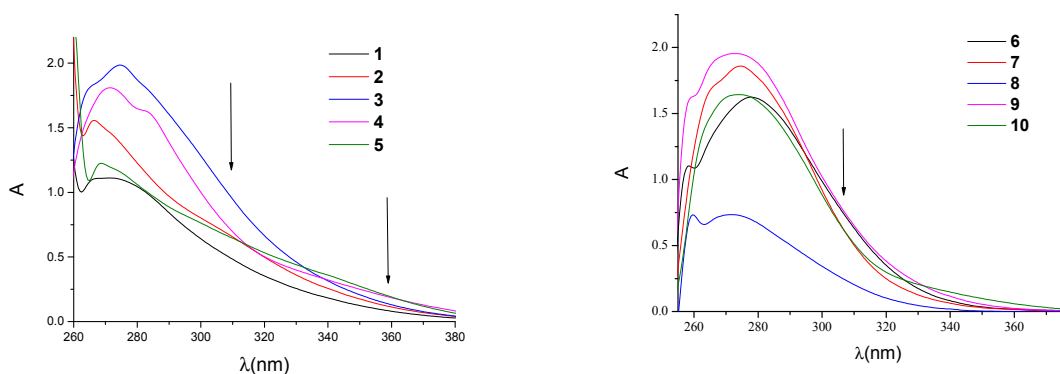


Figure S1. UV absorption spectra of *p*-NO₂-benzoyl conjugated amidoximes 1–5 and pyridoyl conjugated amidoximes 6–10. Concentrations: 1 (5×10^{-5} M), 2 (10^{-4} M), 3 (5×10^{-5} M), 4 (10^{-4} M), 5 (5×10^{-5} M), 6 (10^{-4} M), 7 (10^{-4} M), 8 (10^{-4} M), 9 (5×10^{-5} M), 10 (2×10^{-5} M).

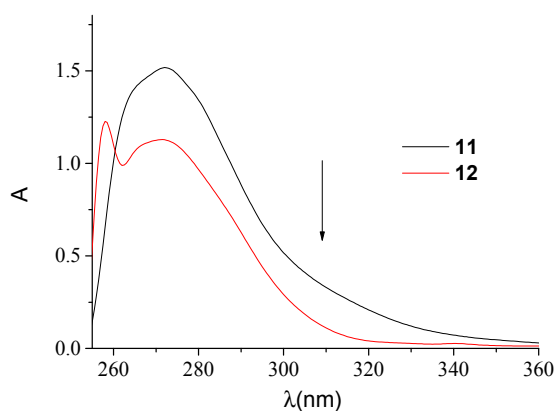


Figure S2. UV absorption spectra of *p*-NO₂-benzoyl and pyridoyl conjugated ethanone oximes 11 and 12, respectively. Concentrations: 11 (10^{-4} M), 12 (10^{-4} M).

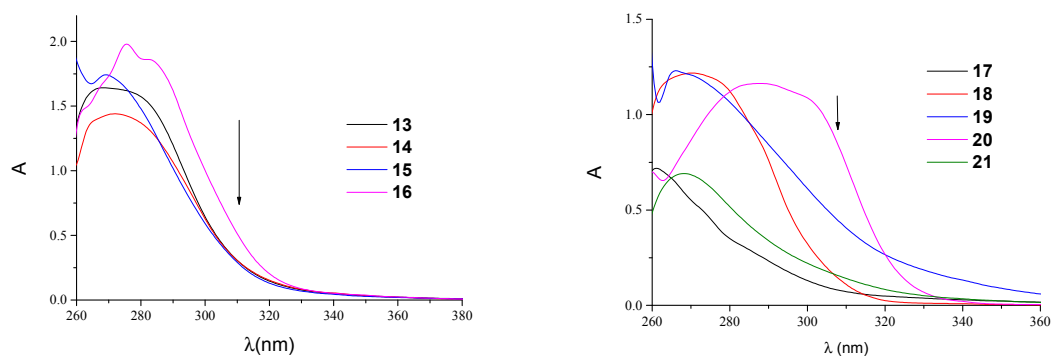


Figure S3. UV absorption spectra of *p*-NO₂-benzoyl conjugated aldoximes 12–16 and pyridoyl conjugated aldoximes 17–21. Concentrations: 13 (5×10^{-5} M), 14 (5×10^{-5} M), 15 (2×10^{-5} M), 16 (10^{-4} M), 17 (10^{-4} M), 18 (5×10^{-5} M), 19 (10^{-4} M), 20 (10^{-4} M), 21 (5×10^{-5} M).

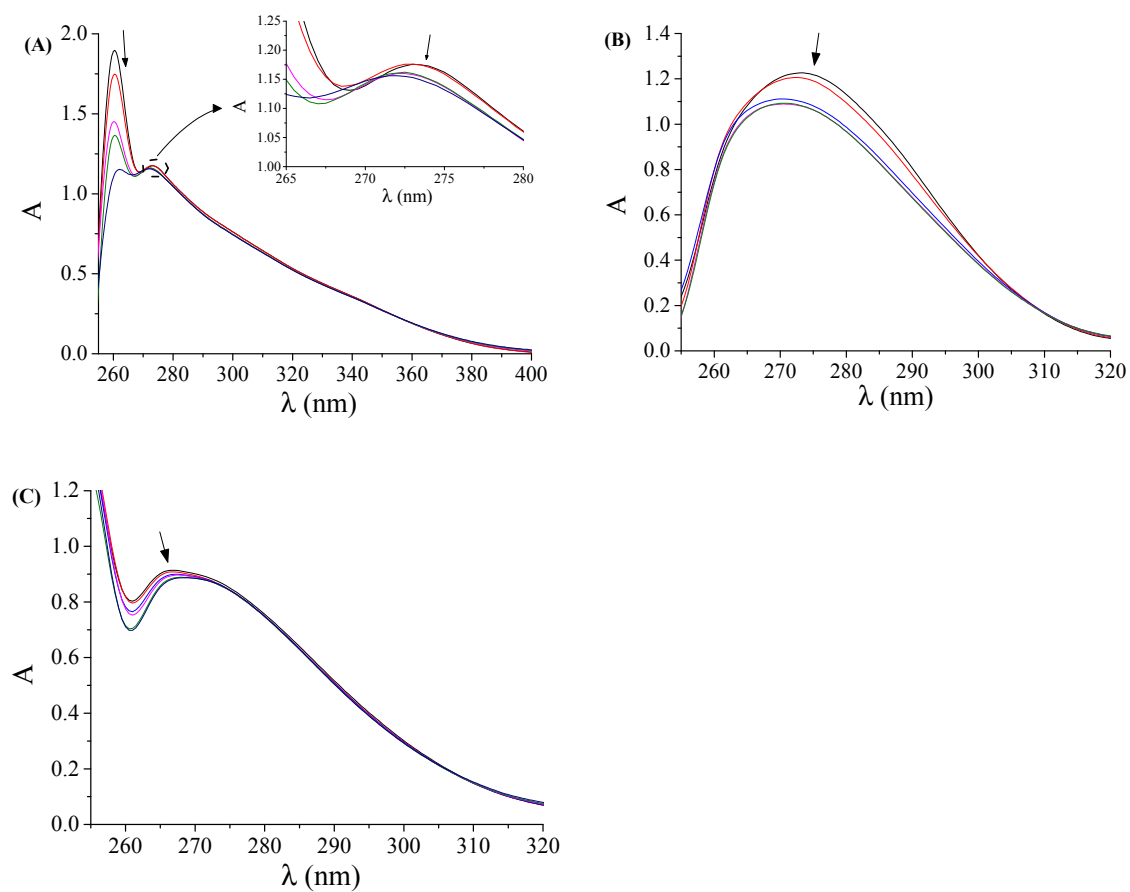


Figure S4. UV spectra of DMSO solution of compound (A) **5** (5×10^{-5} M); (B) **12** (1×10^{-4} M) and (C) **15** (2×10^{-5} M) in the presence of increasing amounts of CT DNA ($r' = [\text{DNA}]/[\text{compound}] = 0\text{--}0.8$). The arrows show the changes upon increasing amounts of CT DNA.

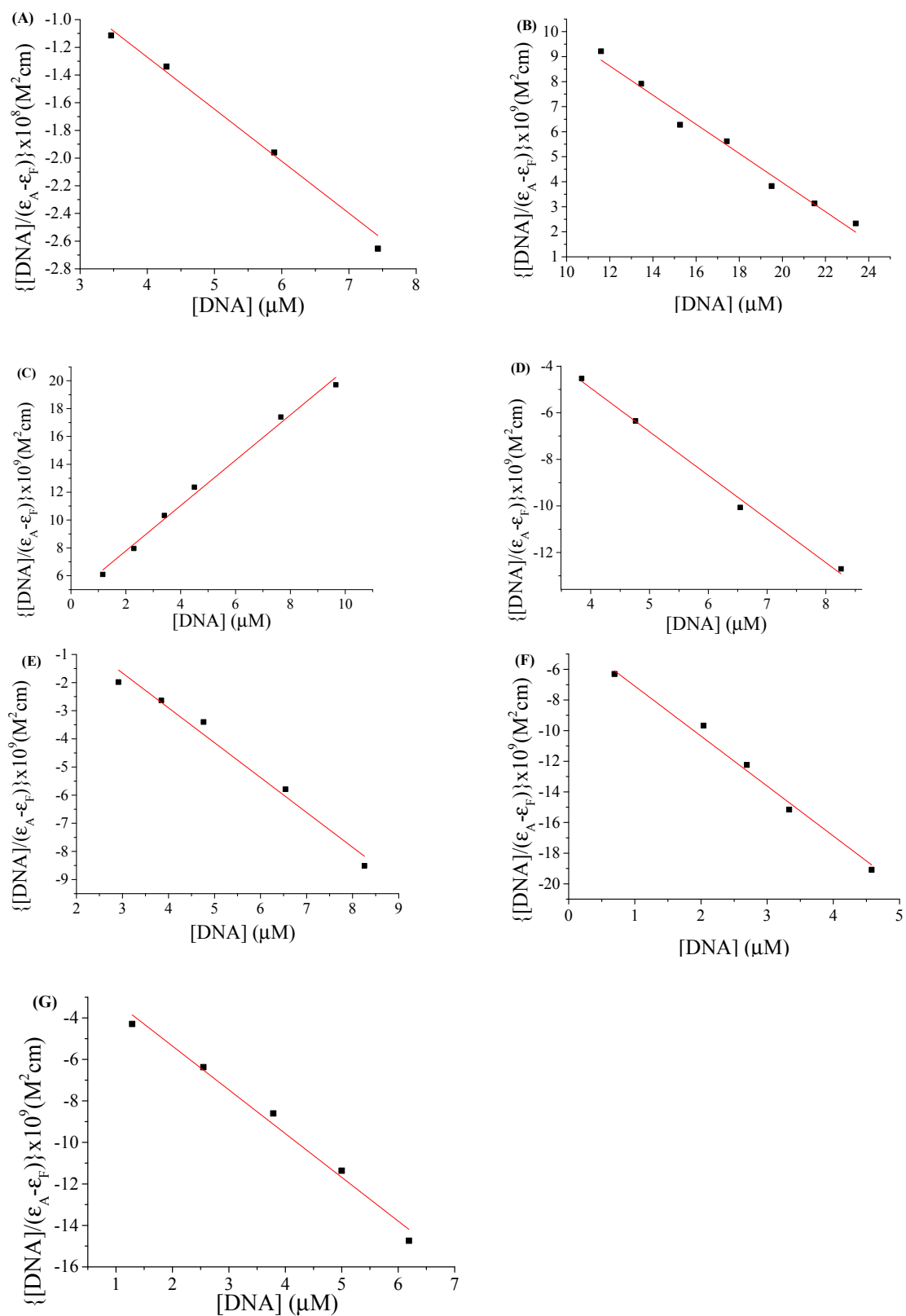


Figure S5. Plot of $\frac{[DNA]}{(\epsilon_A - \epsilon_F)}$ versus [DNA] for compound (A) 1; (B) 3; (C) 8; (D) 9; (E) 12; (F) 14 and (G) 21.

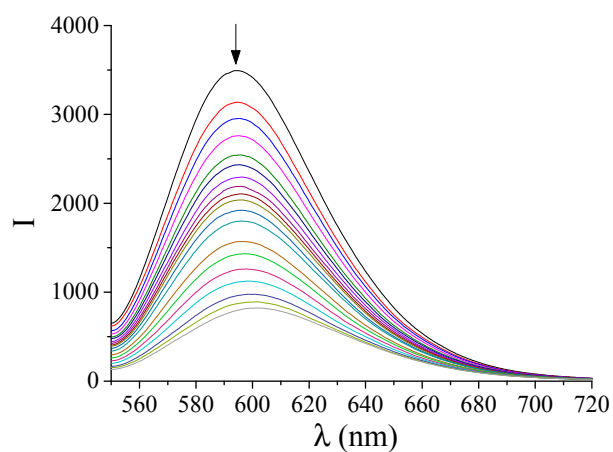


Figure S6. Fluorescence emission spectra ($\lambda_{\text{ex}} = 540 \text{ nm}$) for EB-DNA ($[\text{EB}] = 20 \mu\text{M}$, $[\text{DNA}] = 26 \mu\text{M}$) in buffer solution in the absence and presence of increasing amounts of compound **1** (up to the value of $r = 0.17$). The arrow shows the changes of intensity upon increasing amounts of **1**.

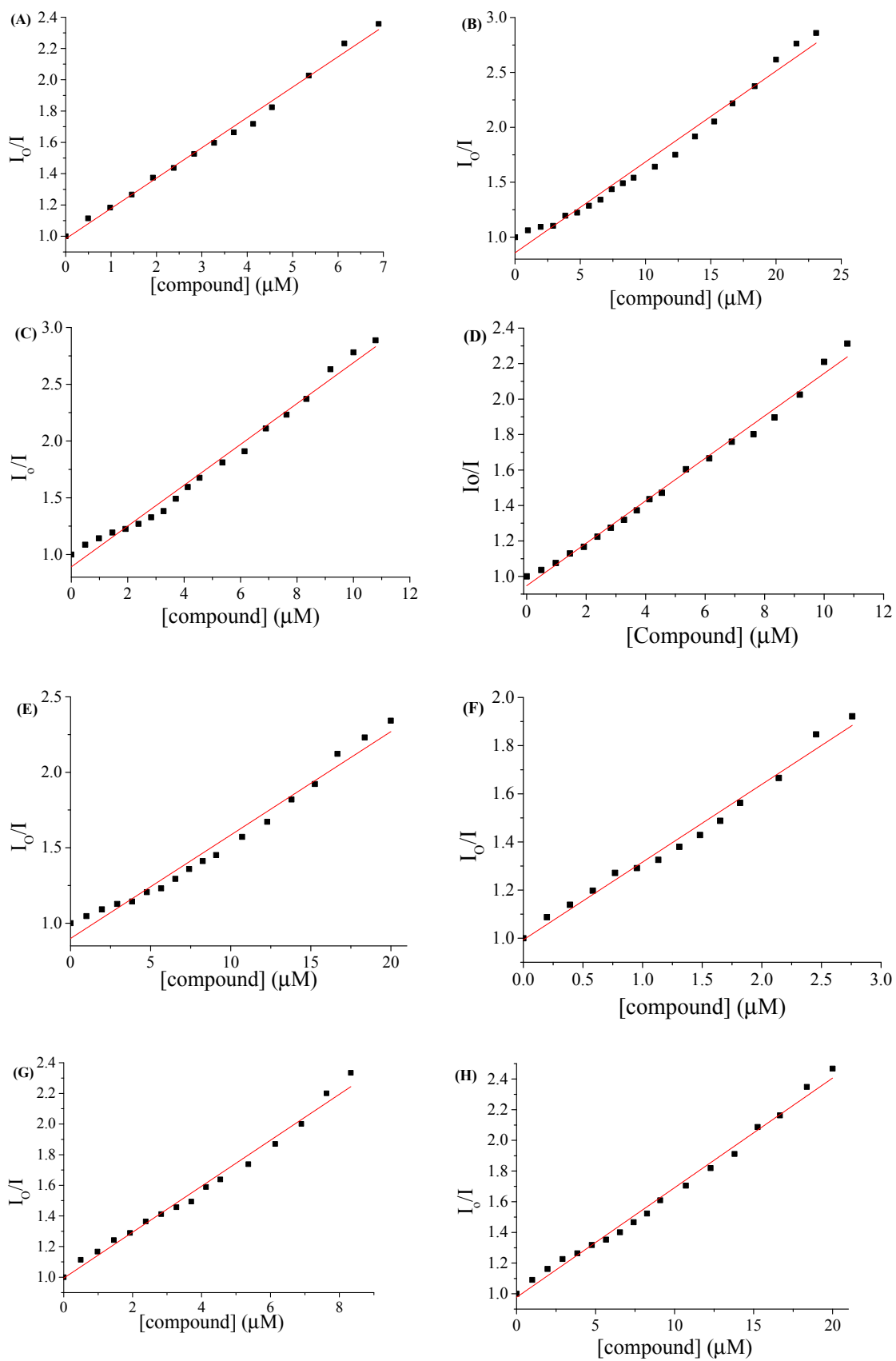


Figure S7. Stern-Volmer quenching plot of EB-DNA fluorescence for compound (A) 1; (B) 2; (C) 3; (D) 5; (E) 8; (F) 9; (G) 10 and (H) 11.

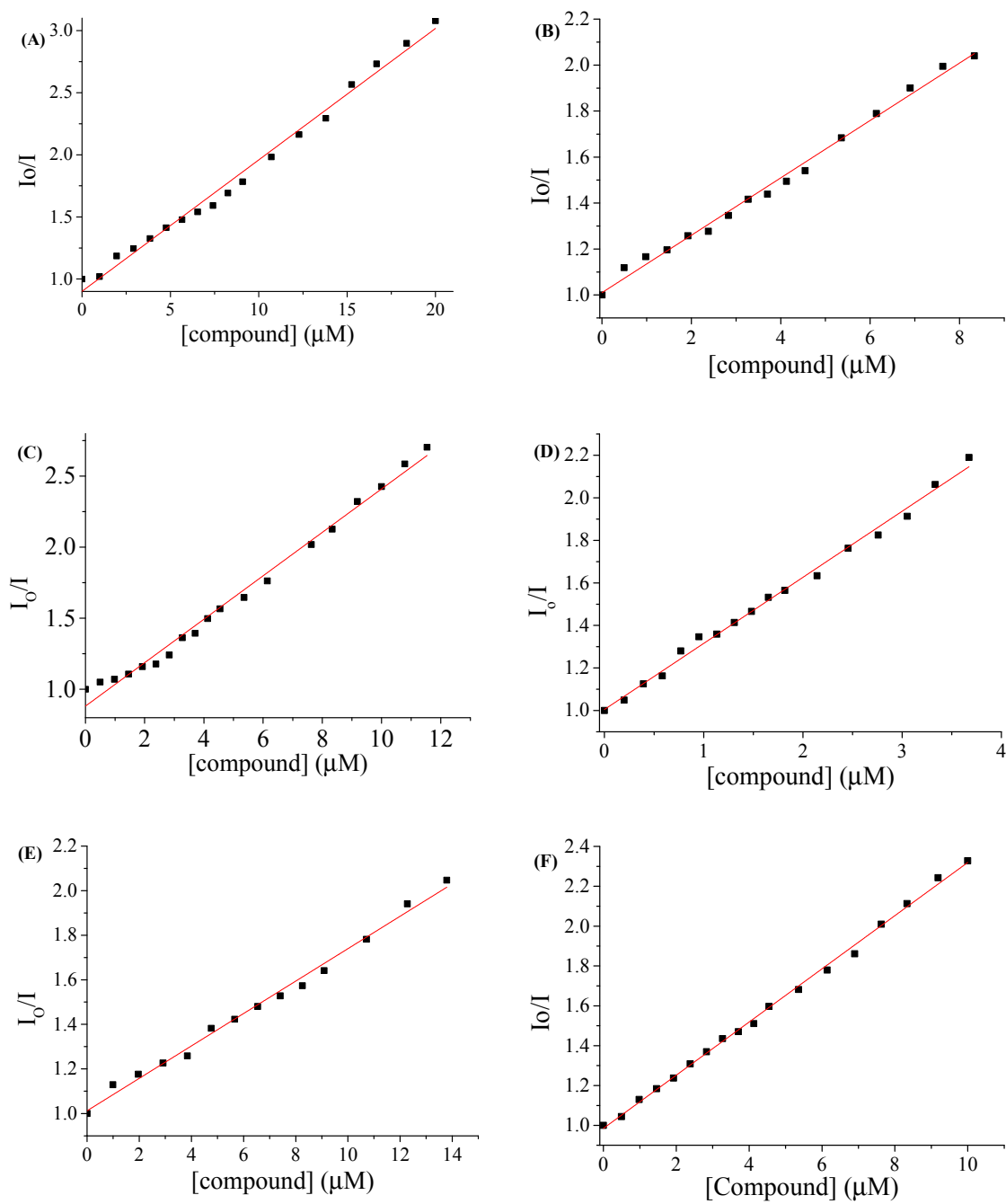


Figure S8. Stern-Volmer quenching plot of EB-DNA fluorescence for compound (A) 12; (B) 13; (C) 14; (D) 15; (E) 19 and (F) 21.