Supplementary Information

Barbituric Acid Based Fluorogens: Synthesis, Aggregation-Induced Emission and Protein Fibril Detection

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Figure S1. UV-vis absorption spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. 2

Figure S2. Normalized absorption spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. 2

Figure S3. Fluorescence emission spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. 3

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Figure S6. Fluorescence emission spectra of ThT binding with fibril, amorphous or monomer formations of HEWL. 4
Figure S1. UV-vis absorption spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. Concentration = 10 µM.

Figure S2. Normalized absorption spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. Concentration = 10 µM.
Figure S3. Fluorescence emission spectra of dyes (A) MeB, (B) MeB-M, (C) MoB, (D) MoB-M, (E) PyB, (F) PyB-M, (G) EtHB, (H) EtHB-M, (I) EtB and (J) EtB-M in different solvents. Concentration = 10 µM. $\lambda_{ex} = 438-494$ nm.

Figure S5. Normalized fluorescence emission spectra of dyes MeB, MeB-M, MoB, MoB-M, PyB, PyB-M, EtHB, EtHB-M, EtB and EtB-M in solid powder state. $\lambda_{ex} = 438$–462 nm.

Figure S6. Fluorescence emission spectra of ThT binding with fibril, amorphous or monomer formations of HEWL. ThT concentration: 50 µM. $\lambda_{ex} = 440$ nm.