Promoting the formation and stabilization of human telomeric G-quadruplex DNA, inhibition of telomerase and cytotoxicity by phenanthroline derivatives†

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Electronic Supplementary Information (ESI)

Fig.S1 FRET-melting curves of F21T with various concentrations of compounds a-d in buffer containing 100 mM NaCl.

Fig.S2 FRET-melting curves of F21T with 0, 0.4 and 1µM of compounds a-d in buffer containing 100 mM KCl.

Fig.S3 Competitive FRET-melting curves of F21T with 1µM of compounds a-d and 0, 2 and 5µM of duplex competitor ds26 in buffer containing 100 mM NaCl.

Fig. S4 Spectrum of $^1$H NMR for ligand (300 MHz, DMSO-d$_6$)

Fig. S5 Spectrum of $^{13}$C NMR for ligand (75 MHz, DMSO-d$_6$)

Fig. S6 Spectrum of $^1$H NMR for compound a(300 MHz, DMSO-d$_6$)

Fig. S7 Spectrum of $^{13}$C NMR for compound a (75 MHz, DMSO-d$_6$)

Fig. S8 Spectrum of $^1$H NMR for compound b(300 MHz, DMSO-d$_6$)

Fig. S9 Spectrum of $^{13}$C NMR for compound b (75 MHz, DMSO-d$_6$)

Fig. S10 Spectrum of $^1$H NMR for compound c(300 MHz, DMSO-d$_6$)

Fig. S11 Spectrum of $^{13}$C NMR for compound c (75 MHz, DMSO-d$_6$)

Fig. S12 Spectrum of $^1$H NMR for compound d(300 MHz, methanol-d$_4$)

Fig. S13 Spectrum of $^{13}$C NMR for compound d (75 MHz, DMSO-d$_6$)
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