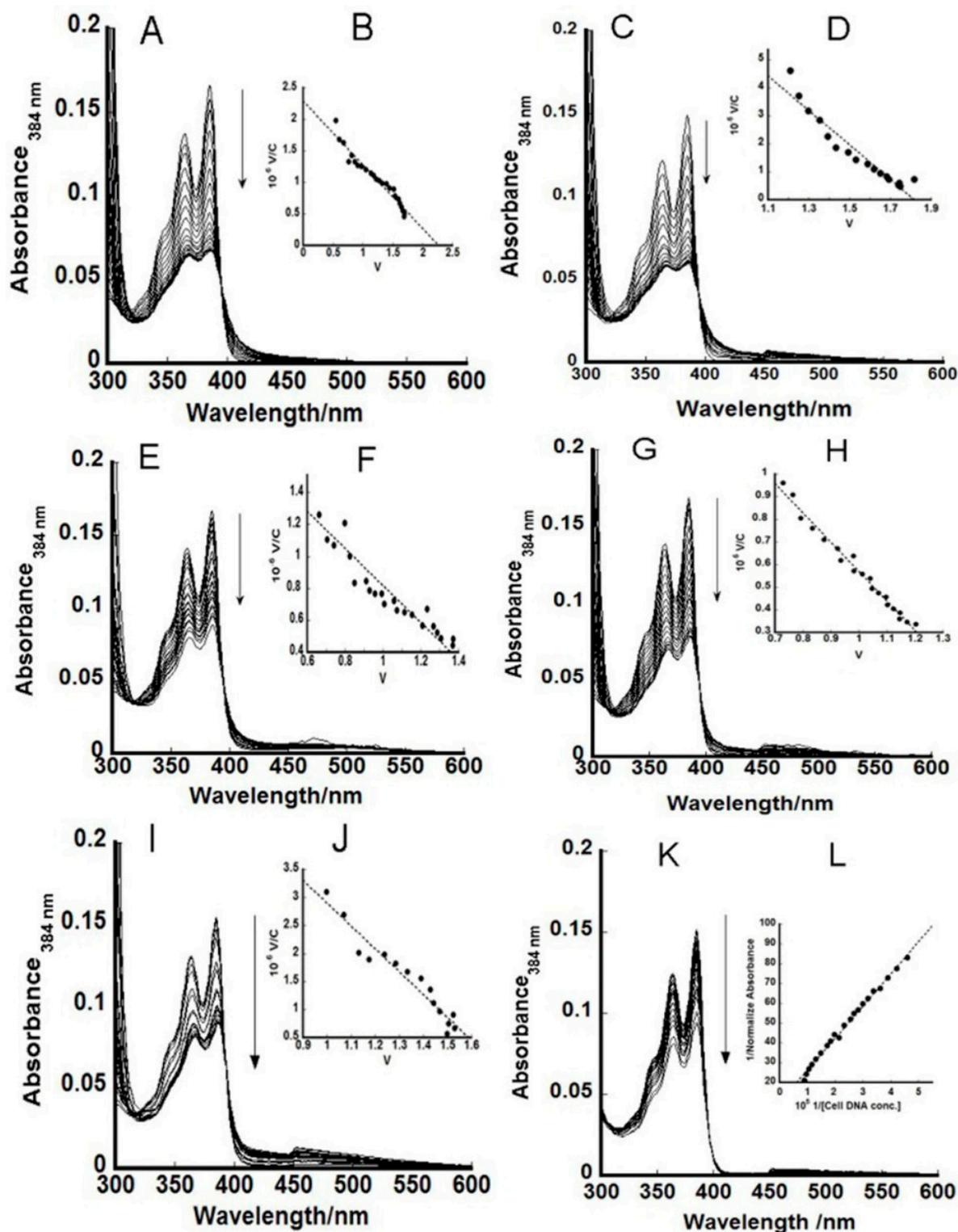


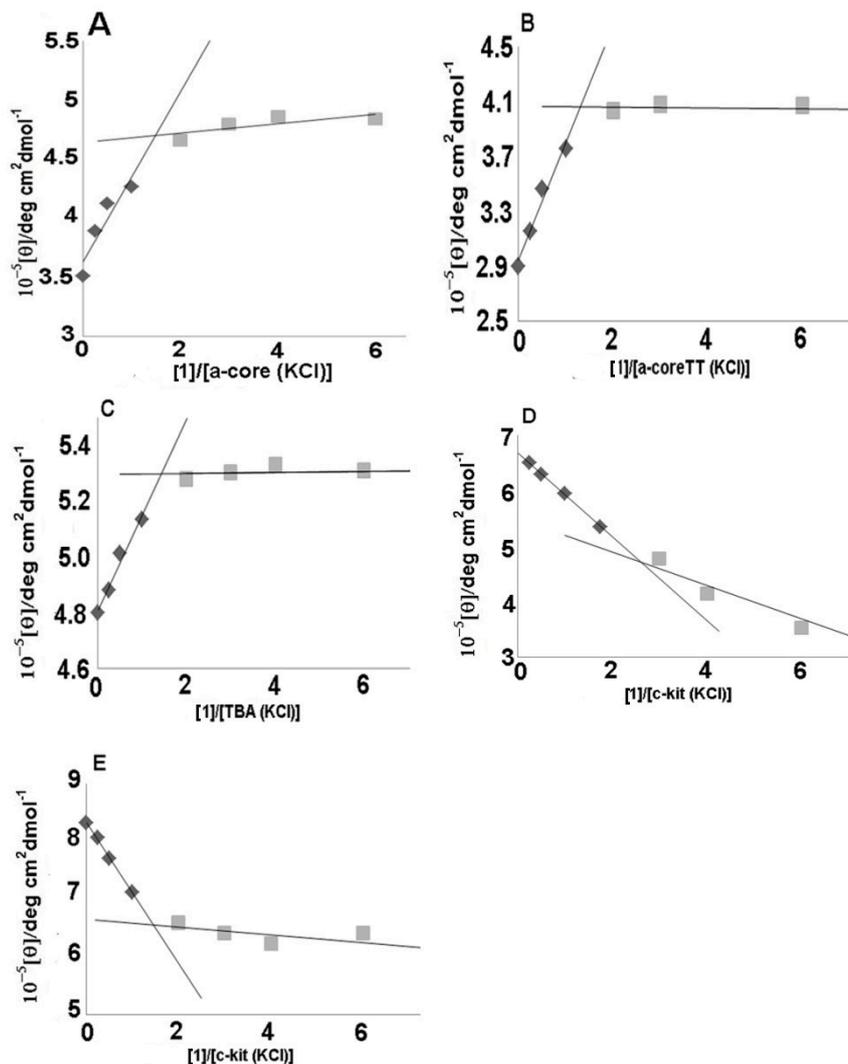
## Supporting Information

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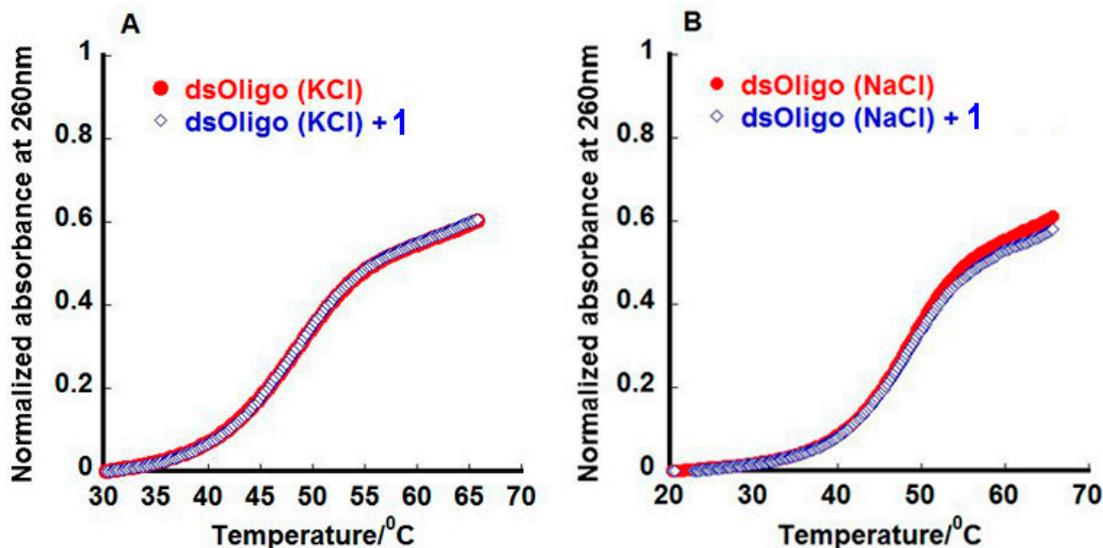
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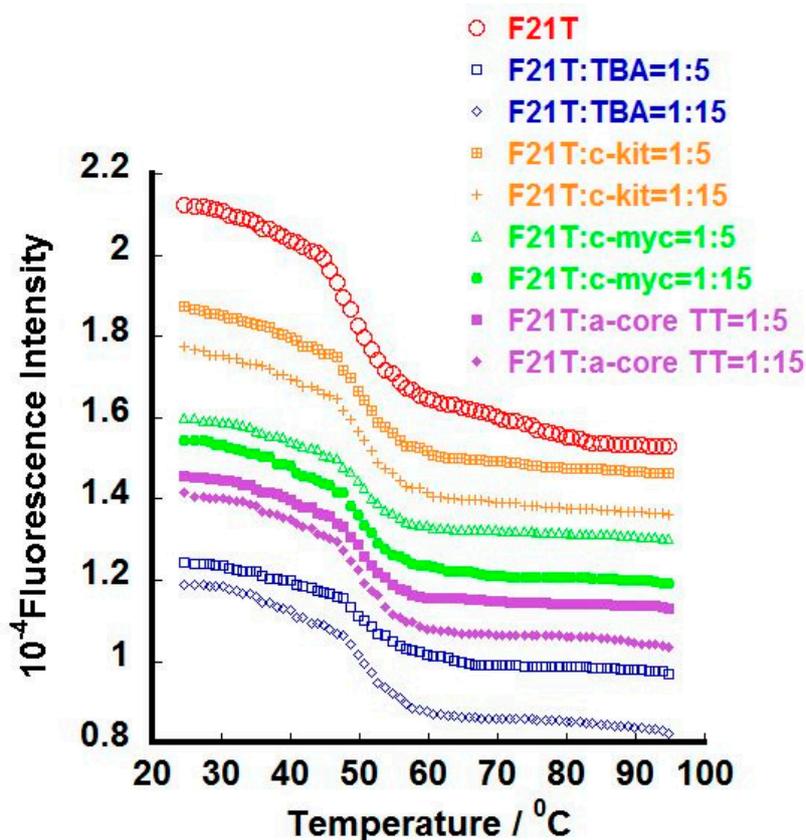
**Figure S1.** UV-Vis absorption spectra of 5.0  $\mu\text{M}$  **1** in the absence and presence of a-core (A); a-coreTT (C); TBA (E); c-kit (G); c-myc (I) and dsDNA (K) with 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 10 and 20  $\mu\text{M}$  respectively. Binding affinities were estimated using the scatchard plot of **1** with a-core (B); a-coreTT (D); TBA (F); c-kit (H), c-myc (J) and Benesi-Hildebrand plot of **1** with dsDNA (L). Experiments were performed at 25  $^\circ\text{C}$  in 50 mM Tris-HCl (pH 7.4), 100 mM KCl.



**Figure S2.** Analysis (by Job plot) of CD spectra of **1** with a-core (A); a-coreTT (B); TBA (C), c-kit (D); c-myc (E). Molar ellipticity values at 290 nm (a-core, a-coreTT, and TBA) and 263 nm (c-kit and c-myc) were plotted against increased ligand-DNA molar ratio. Experiments were performed at 25 °C in 50 mM Tris-HCl buffer pH 7.4 containing 100 mM KCl. The intersection of data indicated the binding stoichiometry of **1** and G-quadruplexes DNA [1]. We have observed binding stoichiometry  $n = 1.7$  for a-core (A);  $n = 1.5$  for a-coreTT (B);  $n = 1.8$  for TBA (C);  $n = 2.5$  for c-kit (D);  $n = 1.7$  for c-myc (E). These results are consistent with the stoichiometry from UV-Vis binding studies.



**Figure S3.** UV-Vis melting profiles for dsDNA (KCl) (A) and dsDNA (NaCl) (B) in the absence or presence of **1** in 50 mM Tris-HCl (pH 7.4) and 100 mM KCl or 100 mM NaCl, [ligand]:[DNA] = 2:1.



**Figure S4.** FRET-melting assay of human telomeric DNA (a-coreTT), promoter region's G-quadruplex (c-kit & c-myc) and thrombin-binding aptamer (TBA) with F21T (0.2  $\mu$ M) in the presence of **1** (0.4  $\mu$ M). Experiments were performed in 100 mM Tris-HCl buffer (pH 7.4) containing 150 mM KCl.

**Reference**

1. Kieltyka, R.; Englebienne, P.; Miotessier, N.; Sleiman, H. Quantifying interactions between G-quadruplex DNA and transition-metal complexes. In *G-quadruplex DNA Methods and Protocols*, 1st ed.; Baumann, P., Ed.; Humana Press: New York, NY, USA, 2010; pp. 221–256.