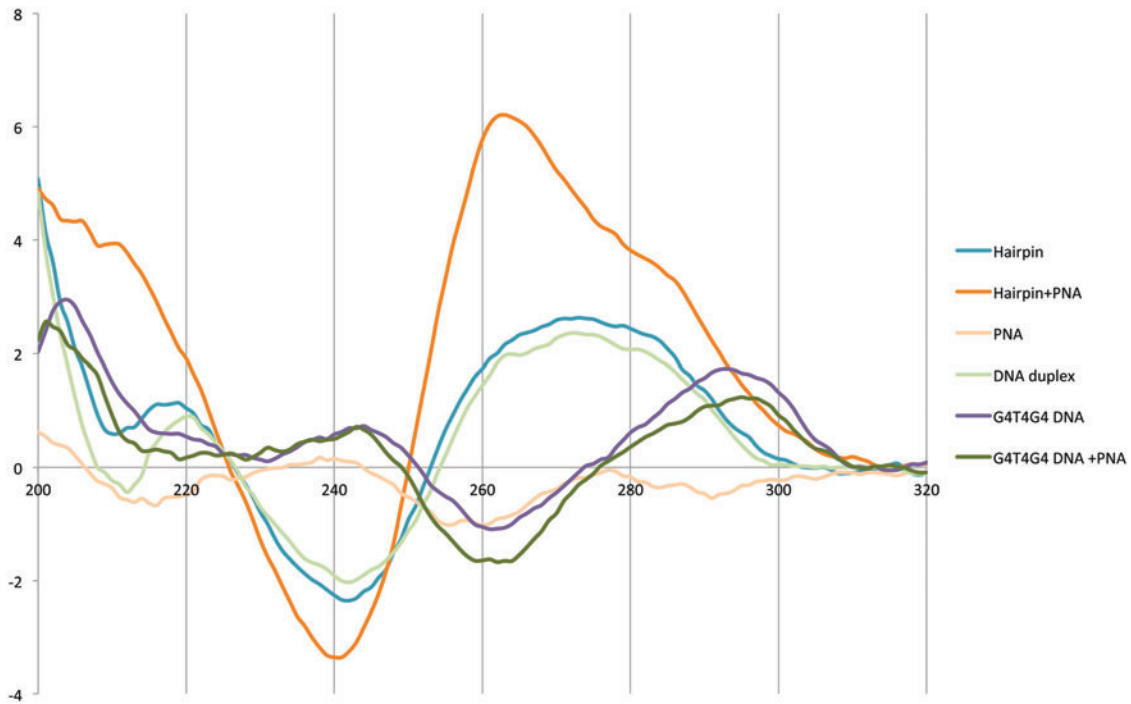


Supplementary Data



SUPPLEMENTARY FIG. S1. Circular dichroism (CD) spectra of peptide nucleic acids (PNA)-DNA complexes. The minimum at 265 nm and the maximum at 240 and 295 nm are consistent with the presence of antiparallel quadruplex in $G_4T_4G_4$ PNA and $G_4T_4G_4$ DNA samples. In contrast, the increase in the minimum at 240 nm and the maximum at 265 nm after addition of $G_4T_4G_4$ PNA to hairpin DNA are consistent with the presence of parallel quadruplex in these samples (compare *blue* and *gold spectra*). However, the presence of a large portion of DNA duplex in the stem of the hairpin affects the total spectra of these samples.