

Supporting Information

The combined action of cation and anion of ionic liquids modulates the formation and stability of G-quadruplex DNA

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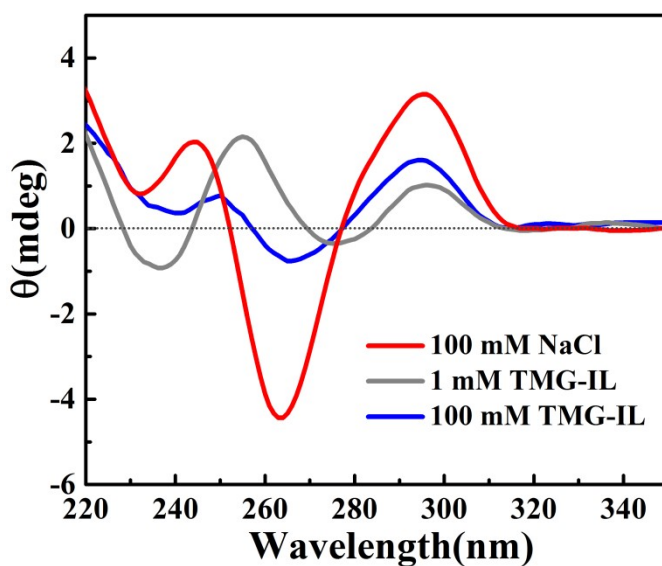


Figure S1: Formation of antiparallel G-quadruplex structure depending on the concentration of TMG-IL.

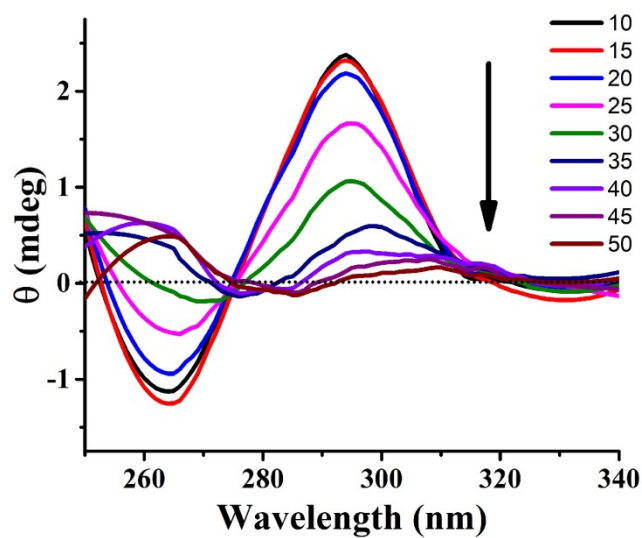


Figure S2: (a) Temperature dependent CD spectra of Gq in presence of IL (one representative case has been shown here).

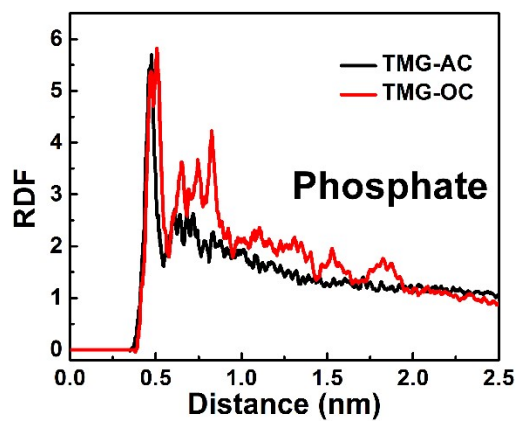


Figure S3: (a) Radial distribution function (RDF) of cation of both the ILs around phosphate region. P atom of the phosphate region and central C of the TMG cation are used for the calculation.

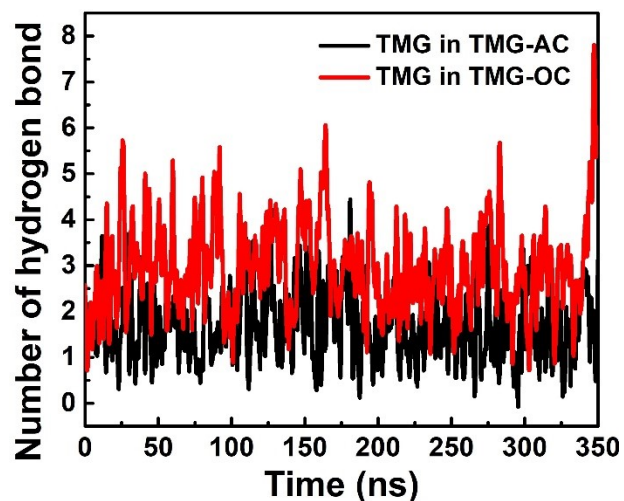


Figure S4: Hydrogen bonding of the TMG cations with the whole Gq DNA for TMG-AC (black line) and TMG-OC (red line).

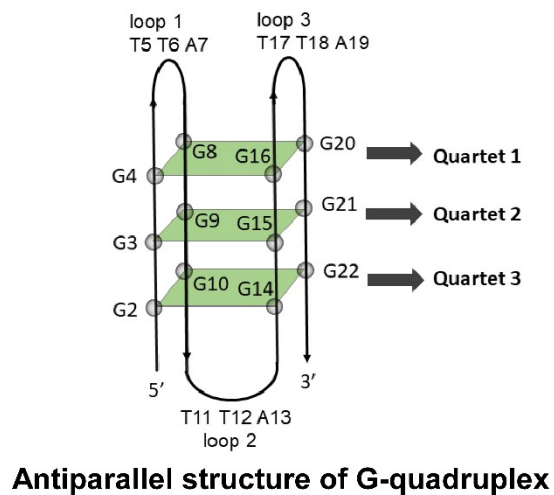


Figure S5: Antiparallel form of Gq DNA with numbering of the bases in the quartet and loop regions.