Electronic Supplementary Material (ESI) for RSC Advances.


# Selective Recognition of Human Telomeric G-quadruplex with Designed Peptide via Hydrogen Bonding Followed by Base Stacking Interactions

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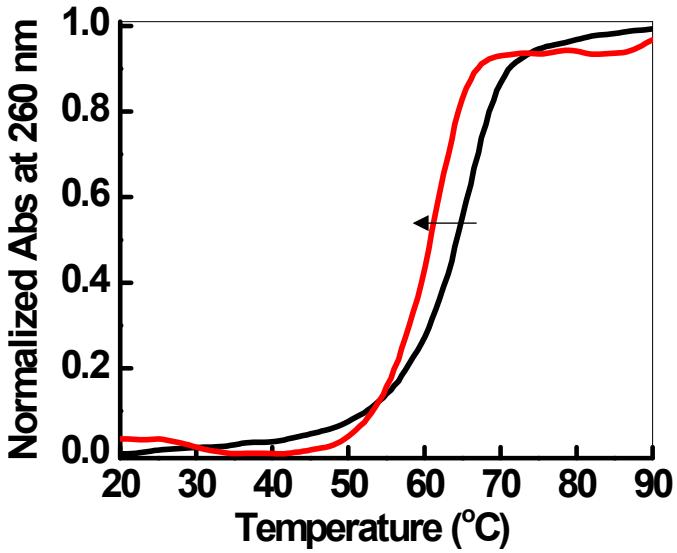


**Figure S1** NormalizedUV melting curves of 4$\mu$MHTPu.HTPyin buffer containing 100 mMKCl, 0.5 mM EDTA, without any additive (black line); HTPu.HTPy: QW10 ratio (1:10) (red line).

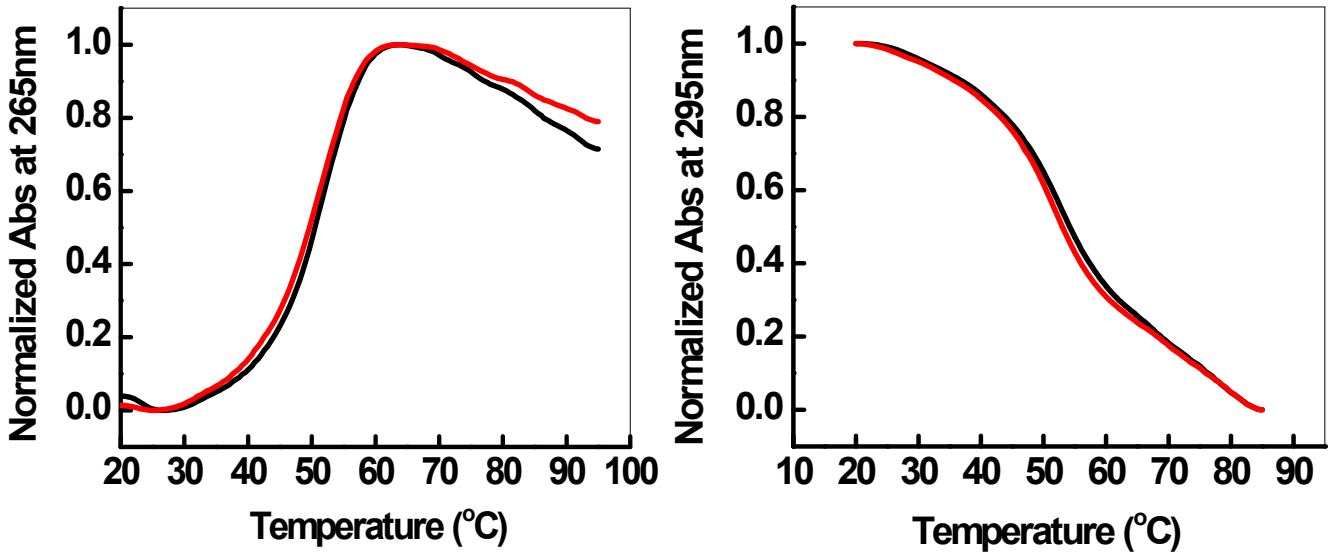


**Figure S2** NormalizedUV melting curves of 4$\mu$MHTPyin buffer containing 100 mMKCl, 0.5 mM EDTA, without any additive (black line); HTPu.HTPy: QW10 ratio (1:10) (red line) at 265 nm (a) and at 295 nm (b).

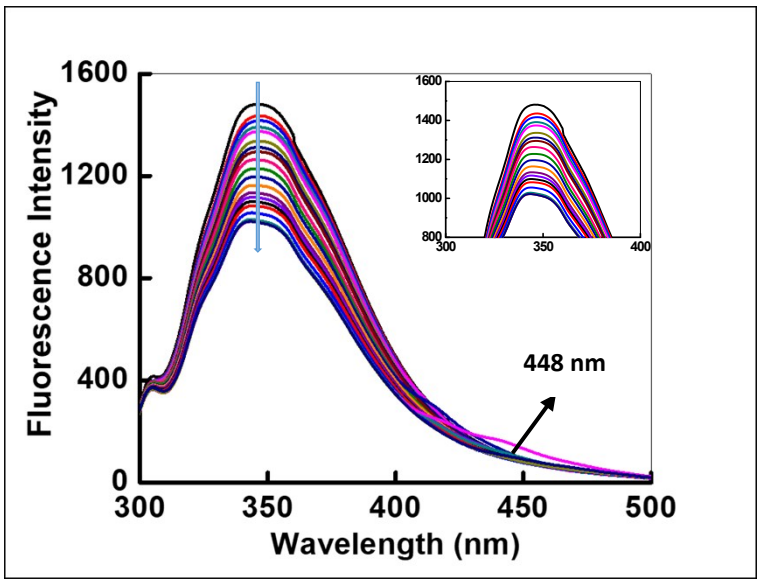


**Figure S3a** Emission Spectra of QW10 peptide with HTPu in buffer (pH 7.0) containing 100 mM KCl, 0.5 mM EDTA, at 25°C. QW10=4 µM titrated with equimolar HTPu stock in an increasing concentration.

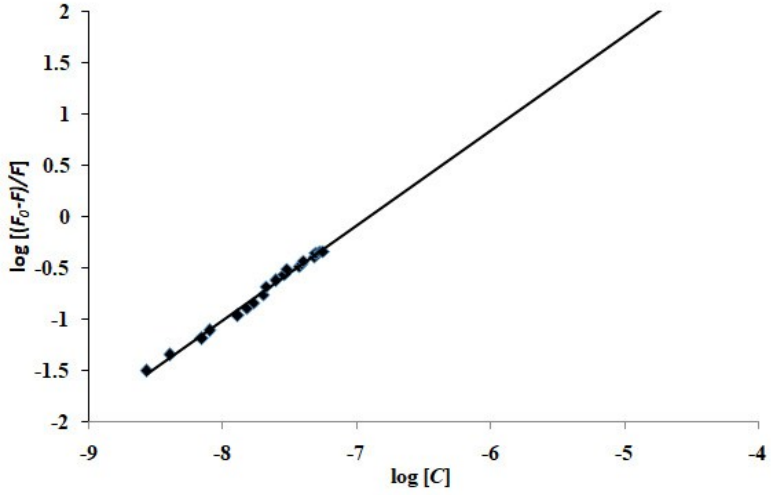


**Figure S3b:** Modified Stern Volmer plot. The experimental data fitting of double log relation to find binding parameters.