

Pathways of Excess Electron Transfer in Phenothiazine-tethered DNA Containing Single-base Mismatches

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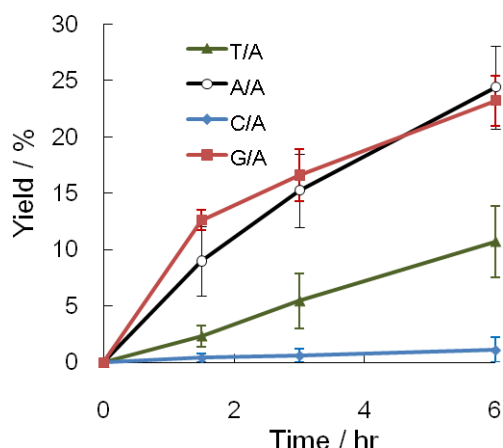


Figure S1. Photo-induced excess electron transfer to ^{Br}U from PTZ in $1 \mu M$ of ODN 1/cODN 1 [X/Y = (\blacktriangle) T/A, (\circ) A/A, (\blacklozenge) C/A, and (\blacksquare) G/A] in phosphate buffer (10 mM sodium phosphate, 90 mM NaCl, pH 7.0). Samples were photo-irradiated for 0-6hrs under N_2 conditions. Yields were calculated from the intensity of the cleavage at the 5'-adjacent base C relative to the total intensities. Each analysis was repeated at least three times

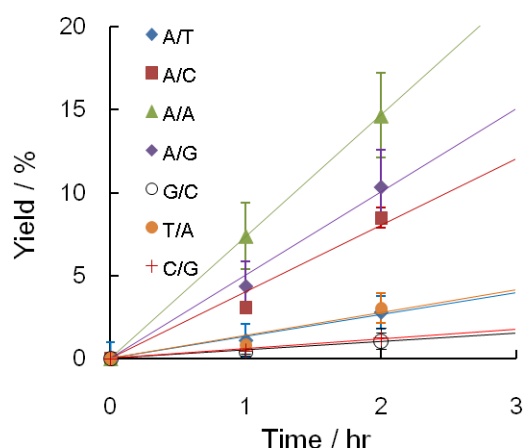


Figure S2. Photo-induced excess electron transfer to ^{Br}U from PTZ in $1 \mu M$ of ODN 2/cODN 2 in phosphate buffer (10 mM sodium phosphate, 90 mM NaCl, pH 7.0). Samples were photo-irradiated for 0-2 hrs under N_2 conditions. Yields were calculated from the intensity of the cleavage at the 5'-adjacent base C relative to the total intensities. Each analysis was repeated at least three times