SUPPORTING INFORMATION FOR

Enhanced Hybridization Selectivity Using Structured γPNA Probes

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Figure S1. Overlay of SPR sensorgrams for struc_γPNA and unstruc_γPNA with perfect match DNA target showing greater dissociation of struc_γPNA.

Figure S2. UV melting curves of unstruc_γPNA with perfect match and single mismatch DNA targets

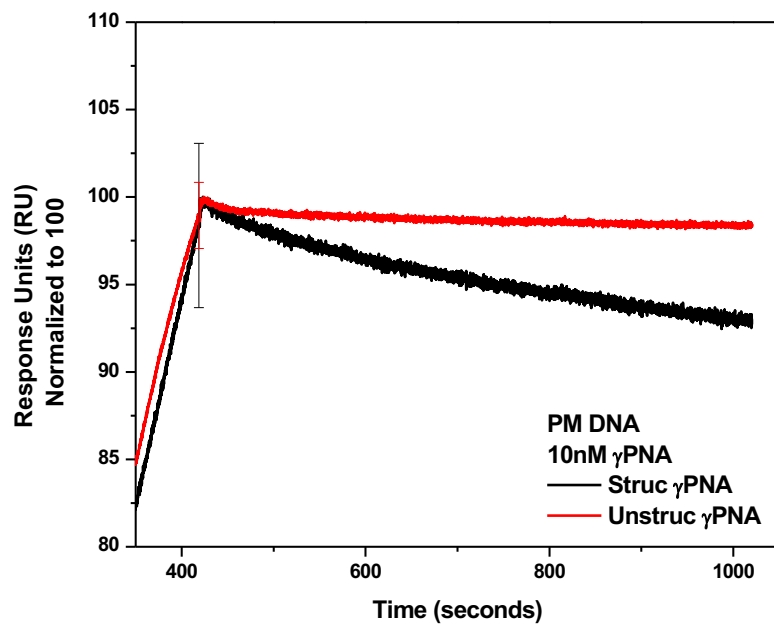**Figure S3.** UV melting curves of struc_γPNA with perfect match and single mismatch DNA targets

Figure S1. Overlay of SPR sensorgrams showing binding of 10 nM struc_γPNA or unstruc_γPNA to perfect match DNA target. Sensorgrams were scaled to 100% at time where flow changed from γPNA to buffer. Structured probe exhibits significantly greater dissociation from chip.
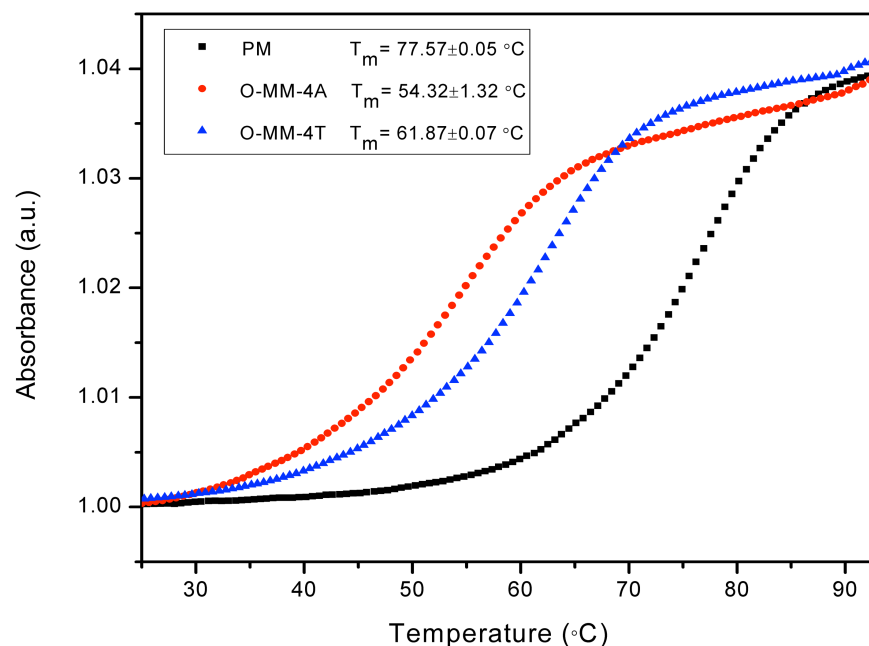
Figure S2. UV-vis melting analysis of unstruc_γPNA with PM, O-MM-4T and O-MM-4A DNA. All samples contained 2 µM DNA and 2 µM unstruc_γPNA in 100 mM NaCl, 10 mM Tris-HCL (pH = 7.4), and 0.1 mM Na$_2$EDTA. Absorbance was measured at 260 nm.
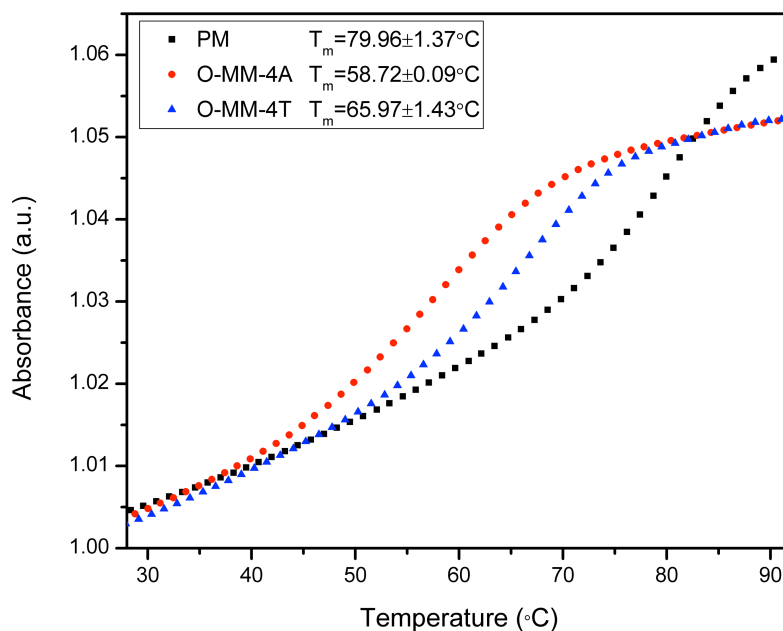

Figure S3. UV-vis melting analysis of struc_γPNA with PM, O-MM-4T and O-MM-4A DNA. All samples contained 2 µM DNA and 2 µM unstruc_γPNA in 100 mM NaCl, 10 mM Tris-HCL (pH = 7.4), and 0.1 mM Na$_2$EDTA. Absorbance was measured at 260 nm. Melting temperatures are higher and destabilizations smaller than for unstructured probe (Figure S2).